WORLD'S FINEST

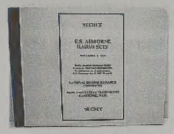
ELECTRONIC SURPLUS

52nd ANNIVERSARY

1947 1999

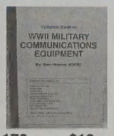
CATALOG WS-99
MANY NEW ITEMS
CHECK EVERY PAGE!

WW II RADIO INFO



WWII MILITARY COMMUNICATIONS EQUIPMENT, A compilation by Sam Hevener, detailed information on USAAF aircraft sets, infantry sets, vehicle sets, countermeasures equipment, intelligence equipment, radar, photography, british infantry and aircraft sets, unit radio assignments, navy aircraft sets, vacuum tube cross reference. Lots of interesting information. 8.5 x 11, 103 pgs, $15.00

WW II RADAR INFO



SECRET - US AIRBORNE RADAR SETS Nov 1, 1944. Covers basic information about the early radars that won WWII. Covers frequencies used, aircraft installed in, type of power output tube, various components of system. No pictures, sorry. A reprint by Sam Hevener, a well known WWII affecionado. 11X8.5, 176 pgs, $19.

C-375 CONTROL

Control box for radio sets GRC-3--8 or VRC-8--10. Unit is a remote junction point and switching unit for the control and audio lines to two sets. 3.2 x 6.8 x 7, 6lb sh. unused, $22

C-375 and WM-46, Ten Conductor #14 Control Cable for C-375 and other GRC radios. 30 foot, 16 lbs, unused, Both $42

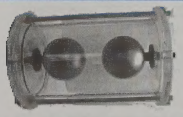
PRC-66 Battery Box

CY-6327A battery box for PRC-66 backpack transceiver. 2.6x10.5x5, 3 lbs unused, $14.95

5 KW RF SWITCH

2 deck, 4 position, ceramic motorized RF switch with progressive shorting. Requires 12 to 19 VDC input. 7"D x 8.8"W x 12.5" H, 8 lbs sh., used nice condition, #PS-12, $125.00

SPARK GAP

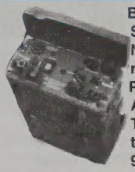


Clear plastic construction with removeable ends. Adjustable spark gap with 3.9" diameter balls. Gasketed to allow vacuum or gas environment for balls. Pressure information is unknown. Takes 3/8" plastic tubing for the intake on each end. o/a 15.5"Lx9" dia., 13 lbs #SG-4, used, $99.50

HF ANTENNA SYSTEM

AS2482/TSC-60 HF RECEIVE ONLY ORTHONONAL ANTENNA SYSTEM consists of two crossed sloping dipoles 90 degrees apart with a pair of baluns at the top of the mast. Four 62 inch long mast sections 2.75" dia for 18 ft mast. Includes mast, junction box, 2/24 ft RG-213 cable, 4 stainless stakes and 4 chromed stakes. Accessories in case 31x22x8 shipping two packages 70/50 lbs unused $325

BC-1000 RADIO SET



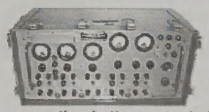
BC-1000 BACKPACK TRANSCEIVER SET, WW-2 and Korean War sets from NATO-surplus. 40 to 48 MHz FM range in forty-one 200 KHz steps. Power output: 300 MW RF, 200 MW AF. Built-in 43 MHz cystal calibrator. Tubes 1A3, 5/1L4, 3/1S5, 6/1T4, 1R5, two 3A4. Requires 4.5 VDC 500 ma & 90 VDC 25 ma. European markings; non-working. w/ CS-128 battery box & SCR-300A manual; 5.6x11.3x14.4, 28 lb #BC-1000-EUR, used, $125

ACCESSORIES for BC-1000 with purchase:
AN-131 ANTENNA, 8-section; sections may need re-strung and/or top cap missing. USED, $17.50
H-94 HANDSET or = (similar to TS-15), $25.00
M-391 PAD, unused, $6.00
CD-318 SWITCH no straps, used, $12.00
T-45 LIP MIC, $3. BG-150A BAG, "poor", $8.00

PP-114 Power Supply

PP-114/VRC-3 VIBRATOR POWER SUPPLY for the BC-1000 transceiver with input options of 6, 12, or 24 volt. 9.3 x 11 x 6.2, 32 lb used, $129.95

PP-351 Power Supply



PP-351 POWER SUPPLY used to supply power for AN/PRC-8,9,10, SCR510, SCR610, and BC1000 transceivers for shop testing. Useable for many other battery operated radios. Voltage outputs A1, 0.9 - 1.8 v DC 1.5 A; A2, 0.9 - 1.8 VDC 1 or 2.5 - 8.6 VDC 1 A; B1, 22.5 - 150 VDC 100 ma; B2, 22.5 - 150 VDC 100 ma. Test cables for radios not available. Size 12 x14 x25 Power input 120/240 VAC 115 lb. Used Reparable $250.00, Manual repro $15.00

80 MHz RF Generator

SG297/URM-103 18 to 80 Mhz FM Signal Generator also the following IF frequencies 4.3, 5.6, 5.625, 5.650, 10.00, 11.5MHz unmodulated for testing IF frequencies of military receivers. Internal modulation 150 Hz, 400 Hz, and 1000 Hz, external modulation 0.1 to 30 Khz. RF output 0.05 to 1.0 V; IF output 10 microvolts to 10 volts. Power input 115/230 V 50 - 400 Hz. Size 13 x 13.25 x 18. Shipping Wt 75 lbs. Reparable $195.00 used checked $250.00
Reproduction of maintenance manual $12.00

TRC-68 TRANSCEIVER

RT-441B/TRC-68 Transceiver 225-400 Mhz AM. 1960's vintage transceiver, basically same as RT-323/VRC-24, rated 16 watts minimum 225 to 400 Mhz. As pictured, no case, no dynamotor/power supply. Voltages required 26.4vdc 125 vdc 300 vdc. Utilizes the following tubes. 7/5670 10/5654 6442 4x150d 7554 6/6j4 6/5670 4/ 5763. 15.2 x 9.5 x 10.2, 47 lb sh. Excellent condition $225.00
Reproduction of maintenance manual $30.00

ORDERING INFORMATION SEE PAGES 16 & 17

MINIMUM ORDER $10.00 + SHIPPING

Fair Radio Sales Co.
P.O. BOX 1105 • 1016 E. Eureka St. • Lima, Ohio 45802
419-223-2196/227-6573 • 24 Hr. FAX 419-227-1313
E-MAIL: fairadio@wcoil.com

This is the only catalog that will be sent this year. A supplement will be sent in the fall.

CCTV Camera / Monitor

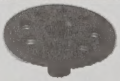
12.5 mm 1:1.9 black & white monochrome CCTV camera. Continous adjustment for "far" and "near". 2 SO-239 connections. Controls for Target, Focus, and Beam. Requires 115 VAC 60 Hz. 14 x 3.9 x 6.4, 12 lbs, GBC Mfg model #CTC-5008, used working, $29.95

8 1/2" closed circuit black & white monochrome monitor. Adjustments for Focus, Vertical Hold, Horizontal hold, Brightness, Contrast, Vertical Linearity, Height. 2 SO-239 connections. Requires 115 VAC 60 Hz. 9.8 x 8.6 x 9.2, 18 lbs, GBC Mfg. #MV-95, used working, $29.95

10" AUDIO REELS

Scotch brand, 1/4" wide audio tape on 10" reels. 1.5 mil. 2 lbs sh., #AR-10, unused, $3.50

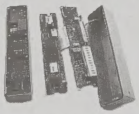
Octal Tube Saver



Save those expensive octal tubes that have broken guide pins. Replace the broken guide pin by slipping this plastic piece over the proper pins. High strength/temperature plastic. Reuseable. .5"Hx1.2" dia, #KY-1, New $1.50 10/$12

CELL PHONE PARTS

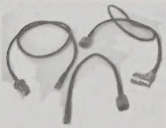
CELLULAR PHONE PARTS BLOWOUT. We have available bag type cellular phones, dead, "as is". For parts/ experimenter use. These are older large cellular phones wih many useable components for the radio experimenter or various electronic applications. These units contain filters, crystal oscillators, power amplifier, surface mount components. Microphone, speaker. Nice Extruded aluminum case:5.7x1.2xX6.3. #PH-CELL $14.95 2/$25.00



Classic cellular "Brick" phone "AS-IS" for experimenter / parts. 3 x 1.8 x 7.8, 4 lbs sh. used #PH-BRICK, $9.95 each 2/$16.00

AC adapter / wall warts GRAB BAG from cell phones:
12VDC 200 ma to 1000 ma, #AC-12, 4 for $11.00
9VDC 130ma to 300ma, #AC-9, 5 for $12.00

N - SMA CABLES



From cellular installation:

Type N male to SMA male with 12" coax #N-SMA-12 $3.50

Type N male to R/A N male with 29" coax #N-RAN-29 $2.95

Type N female to SMA male with 33" coax #FN-SMA-33 $3.75

MILITARY BADGE

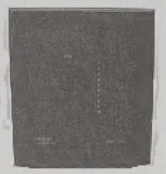
Dark navy blue background with gold color "wings and propeller". 3" diameter. unused, #B-3, $3.00

Video Selectors

Amco Mfg. #VS-104, has a type F connector for each of the 4 video inputs. Also has 2 RCA jacks with each input for right and left audio. Output also has one F connector along with 2 RCA jacks. 4 push button switches on the front for each input. Black, 5.5 x 8.3 x 2.5, 4 lb, used,$19.95

#VS-14, has a type F connector for each of the 4 video inputs along with one RCA jack for "Game" on the first input. One F connector for output. 4 push button switches on the front face. Woodgrain, 5.5 x 8.3 x 2.5, 4 lbs, used, $12.95

VCR Selector



Amco Mfg. #VTR-10, has a type F connector for each of the 10 VCR inputs. One F connector for the TV output. 10 push button switches with an LED beside each switch on the front face. Internally shielded. Originally used to demo products. Black, 8.8 x 9.8 x 11.4, 11 lb, used, $24.95

Audio Selector

Amco Mfg. #LS-2, has 40 RCA connectors for left and right allowing for 20 different audio inputs. 2 RCA connections for output. 20 push button switches on the face with an LED beside each switch. Also, has 20 empty slots on the front face to allow you to label each audio input. Originally used to demo audio products. Black, 8.5 x 9.9 x 11.3, 12 lbs, used, $23.95

12 ft RCA stereo cable with dual RCA plugs on each end. #24-103, unused, $3.95

REPEATER CONTROL

MX-9331/URC provides the data regeneration and radio control capablities required in a ditigital secure voice tactical radio repeater station. It requires low power input, making it suitable for portability and battery operation. It operates in push-to-talk VHF and UHF transceiver radio nets and provides an automatic retransmission function without operator intervention. Operating with encrypted digital signals, the unit recognizes a valid received digital input from one of the two radios, accomplishes timing recovery and data regeneration, and keys the transmitter of the repeating transceiver. 9.8 x 6.2 x 3.1, 8 lb, used, $39.95

Feed Thru Capacitors

Input Filter Section with quantity 31 1000 pf capacitors plus .02 mfd disc caps and chokes. 7.5x1.8x3.3, 2 lbs, #CFIL/ARC58, used, $12.95

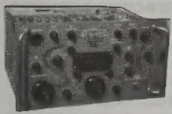
Fair Radio buys your excess material. We may be interested in some items in low quantities, but prefer higher quantities for our catalog sales.

CATALOG INDEX

AMPLIFIERS	3,4,5
ANTENNAS	9,10,11
ATTENUATORS	28
AUDIO EQUIPMENT	19
BANDPASS FILTERS	30
BLOWERS	23
BOOKS	16
CABINETS	26
CAPACITORS	25
CASES	26
CHOKES	19
CIRCUIT BOARDS	14,15
CIRCUIT BREAKERS	29
COAX CABLE	31
COAX CONNECTORS	31
COAXIAL DEVICES	28
COILS	27
COMPASS INDICATORS	24
CONTROL BOXES	15
CRTS	19
CRYSTALS	30
DOLLAR DAZE	32
DYNAMOTORS	22
ENCLOSURES	26
FANS	23
FIELD PHONES	11
FREQUENCY CONVERTERS	22
FUSES/FUSEHOLDERS	29
GALVANOMETERS	34
HANDCRANK GENERATORS	23
HANDLES	30
HANDSETS	12
HARDWARE	30
HEADSETS	12
HEATSINKS	23
INSULATORS	29
INVERTERS	22
KEYBOARDS	15
KNOBS	31
LAMPS	30
LINE CONDITIONERS	22
LINE CORDS	31
LINE FILTERS	30
MANUALS	15
MICROPHONES	12
MODULES	13,14
MOTORS	24
PANEL METERS	34
POTENTIOMETERS	26
POWER SUPPLIES	21
PRESELECTORS	5
RADIOS	3 - 8
RADIO ACCESSORIES	8,9
RECTIFIERS	23
RELAYS	27,28
RESISTORS	26
RHEOSTATS	26
ROLLER INDUCTORS	27
SELSYNS	24
SWITCHES	28,29
SYNCHROS	24
TEST EQUIPMENT	35 - 39
TRANSFORMERS	20
TUBES/SHIELDS/SOCKETS	17,18
UPS SUPPLIES	22
VACUUM CONTACTORS	27
VACUUM RELAYS	27
VARIACS	22
WIRE	31

FOR ORDERING INFORMATION SEE PAGES 16 & 17

R-390A HF RECEIVER



R-390A/URR RECEIVER famous military set covers 0.5 to 32 Mhz AM-CW-MCW in 31 one Mhz bands read directly on mechanical digital counter. 455 Khz final IF; has four Collins mechanical filters allowing 2-4-8-16 Khz selectable bandwidth. Calibration points every 100 Khz; also BFO, AGC, dial locks, 600 ohm audio out, Line and Carrier Level meters. Uses 24 electron tubes; also twinax (balanced) and type C (unbalanced) RF conn. Rackmount; LESS METERS & COVERS. Requires 115/230 V 60 Hz. 10.5x19x16.8, 92 lbs.
USED-REPARABLE, $260.00 CHECKED, $360.00
R-390A CHECKED with substitute meters, $400.00
MANUAL, partial repro, $15.00

- -

LS-166 Speaker with large PM magnet & 600:8 ohm transformer used, $16.00 Bracket, $3.00

****

R-390A, R-392, R-648 PARTS

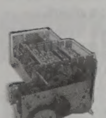
REPLACEMENT ASSEMBLIES & PARTS for military receivers: R-390A (A), R-392 (B) & R-648/ ARR-41 (C).
SPECIFY receiver type & chassis part designation!

AUDIO SECTION	$30 (B) $20 (C)
BEAT FREQUENCY OSC,	$20 (A) $15 (B)
COUPLER, OLDHAM, small or large,	$4.00 (B)
CRYSTAL CAL CHASSIS,	$30.00 (B)
CRYSTAL OSCILLATOR (no crystals)	$20 (A,B)
CRYSTAL, BAND $10 ea (A,B,C);	5/$35 per Rx xtal
200 KHZ CAL,	$18.00 (B)
DIAL, COUNTER	$18.00 (A,B,C)
(C) FILTER, MECH (A):	2 Khz $50. 4 Khz $45. 8 Khz $30. 16 Khz $24.
GEARS #39 or #21, $7 (A);	others $3 (A,B,C)
GEAR CLAMPS, large $4.	Small $2. (A,B,C)
HANDLES per pair,	$8.00 (A,C)
KNOBS, small or medium size,	$2..00 (A,C)
MHz/KHz large,	$5 (B,C)
POTS: RF, IF AUDIO GAIN,	$2.50 ea (A,B,C)
POWER SUPPLY without tubes	$35.00 (A)
RESISTOR TUBE RT510/3TF7 or =,	$17.50 (A)
RF AMPLIFIER SECTION,	$17 (C)
RF/IF TUNER less VFO,	$95 (C)
RF OSC ASSY less crystals,	$18 (C)
SPECTRUM GENERATOR,	$18 (C)
TRANSFORMER, AUDIO,	$7.50 (A,B,C)
" , RF-IF (specify #)	$8 (A,B,C)
SLUGS only (specify #),	$3.50 ea (A,B,C)
VFO, (COLLINS),	$65 (A) $60 (B) $45 (C)

* *

VARIABLE FREQUENCY OSCILLATOR from R-390A HF receiver with 5749 tube; various mfg (no choice). 4x3x7.5, 4 lbs sh. #VFO/R390A-O/H, gov"t-reconditioned $45.00
#VFO/R390A, used- "AS-IS" untested, $22.50

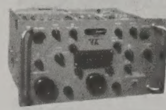
I.F. DECK for R-390A with BFO, four "good" Collins 455 KC mechanical filters 2-4-8-16 KHz, and tubes except no RT510 ballast; 4 lbs. #IF/390A, "AS-IS" not tested, $100



RF AMPLIFIER DECK "AS-IS" for parts or as possible spare for your working R-390A. Includes front gear assembly, set of RF transformers with slugs and slug racks. LESS tubes, crystal oven & counter. 9x12x16, 18 lbs shipping.
#RF-R390A-93, "AS-IS", $35.

AUDIO AMPLIFIER SECTION for R-390A receiver; includes AF transformers, chokes, C603/606 capacitors and tubes; 8 lbs sh. #AF-R390A, "AS-IS", less J620 chassis connector and tube shields, $30.

R-390 HF RECEIVER



R-390/URR RECEIVER, 0.5 to 32 MHz AM-CW-MCW in 31 one MHz bands read on mechnical counter; 455 KHz IF. Bandwidths: 0.1, 1, 2, 4, 8, or 16 KHz. Calibration points every 100 KHz; also BFO, AGC, Dial Lock, Squelch and 600 ohm audio. Line & Carrier Level meters removed by government and not available. Collins or "Motorola made for Collins" (no choice). R-390 does <u>not</u> have mechanical filters. With 31 tubes; requires 115/230 VAC 50-60 Hz; LESS METERS & COVERS, 92 lbs sh. USED-REPARABLE, $275.00

R-392 HF RECEIVER

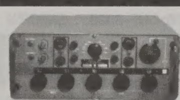
R-392/URR RECEIVER, 0.5 to 32 MHz AM-CW in 32 one MHz bands using mechanical digital tuning. Triple conversion on lower 8 bands, double on others. Selective bandwidth 2, 4 or 8 KHz; 100 KHz xtal calibrator. With 25 tubes: 26A7, 26A6, 26C6, 26D6, 6AJ5, 12AU7. Requires 24-28 VDC 5 amps. Rugged vehicular version of R-390 receiver. 11.5x14.3x11, 58 lbs sh. USED-REPARABLE, $185. CHECKED, $265.00

+ +

R-392 "AS-IS": Receiver less meter and all knobs except tune knobs; otherwise complete. Good for parts! Visually inspected only--not tested! $125

MANUAL for R-392, partial reproduction, $15.00
9-PIN CONNECTOR for R-392, $12 w/ set purchase.
LS-166 SPEAKER for R-392, used, $16 Bracket, $3

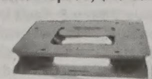
R-1051B HF RECEIVER



R-1051B SYNTHESIZED RECEIVER, covers 2-29.9999 Mhz AM-CW-LSB-USB-ISB using six decade band tuning to 100 Hz + vernier for continuous tune; 500 Khz IF. Meters and controls for LSB & USB Levels; also BFO, 600 ohm audio & 50 ohm input. Stable shipboard design; solid-state except one each; 6BZ6 and 6AN5. Requires 115 VAC 48-450 Hz; 7x17.4x18.9, 85 lbs. Used-CHECKED, $350.

+ +

R-1051G RECEIVER, later version of above with IC-circuitry in synthesizer. USED-CHECKED, $650.
MANUALS for R-1051B or -F, partial repros, $45 ea.



MT-3114 SHOCK & VIBRATION MOUNT for R-1051, RT-618, AM-3007 and similar Navy radios. 19.8"Wx16.5"D top & bottom aluminum platforms w/ four large rubber piston shock absorbers good for 200 lbs; Barrymount*; 16 lbs sh. UNUSED, $25.00

W-J HF RECEIVERS

WATKINS-JOHNSON 8716 / 8718 HF RECEIVER, 5 KHz to 29.99999 MHz AM-CW-LSB-USB-ISB continuously tunable and shown on LED display. IF bandwidth 0.3-1-3.2-6-16 KHz. Requires 100-115/230 V 48-420 Hz. With 8718 manual copy. 5.3x19x19.4, 43 lbs shipping. USED-excellent, $2250.00
<u>WJ-8709 HF RECEIVER</u>, 0.5-29.99999 MHz AM-FM-CW-USB-LSB; compact 5.3x9.5x20. USED, $2400.

HF SSB RECEIVER

R-2322/G HF RECEIVER, microprocessor controlled set operates 2 to 29.9999 Mhz USB-LSB-AM-CW-DATA on 280000 channels selectable on 100 Hz steps. Uses membrane keyboard on C-11670/G control head for function input. ECCM board removed to eliminate "frequency-hop" capability; Rx operable without board. R-2322 is identical to RT-1512/G receiver-exciter except RF Exciter & Audio/SSB Exciter modules missing. Includes RT-1512 operator's manual copy. Requires 103-126 VAC 47-440 Hz; 5x19x10, 45 lbs. UNUSED, $1295.

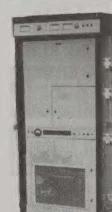
W-J UHF RECEIVERS

WATKINS-JOHNSON 8737 PANORAMIC RECEIVER (RU) w/DISPLAY UNIT (DU), four solid-state band tuners: 20-90, 90-300, 235-500 and 500-1000 MHz CW-AM/MAN-AM/AGC-FM- Pulse. IF bandwidth: 4-20-100 KHz; 21.4 MHz IF. RU controls COR/Squelch, Video Gain, RF/IF Gain, ON/OFF/ Audio Gain, Video Out, Phone Out, Fine tune. Display 1"Hx3"W CRT shows upto 3 MHz spectrum. Sweep 20 KHz-3 MHz. DU also has 6-digit freq-counter; time base provides DAFC for RU. W/ manual copy for = WJ9026; with connectors but LESS CABLES. 5x19 x26, 65 lbs shipping. used-working, may not be to specs, $1375.

+ +

WJ-8618 VHF-UHF RECEIVERS, 30-500MHz $2500.
WJ-8618 w/ Extended Frequency 30-1000MHz $3200

COLLINS 208U-3



POWER AMPLIFIER tunable over 2 to 30 Mhz SSB-AM-CW @ 3 KW PEP using 4CX3000A tube driven by two 4CX350 tubes. Requires 0.2 W RF input; 2 W max during tune cycle. Auto-tunes using servo system or manually controlled under test. Tune time 15 sec nominal, 20 sec max into 50 ohm antenna. Max VSWR 1.3:1. Output: max VSWR 3:1. Requires: 200-250 V 3-wire 3 phase 30 amps 47-420 Hz; 1200 W Standby, 9100 W CW @ 2.5 KW. 72.5x32.6x31; 1020 lbs sh. USED, "not-tested" less 4CX3000A, $3000.00
208U-3 MANUAL partial repro, $75 w/set purchase.

+ + + + + + + + + + + + + + + + +

208U-3A POWER AMP, automatically tunable version of above for use with URG-2 radios. Uses 4CX5000 PA tube; tune time 6 sec nominal, 10 sec max. With modules 333H-2 Electronic Control Amp, 309F-1 Digital to Analog Converter, 915V-2 Amp Control, 652J-13 Power Supply, 599Z-1 Test Panel and 915X-1 Control Monitor. Includes manual copies for all components except 915X-1 & 599Z-1. 72.5x32.6x31; 1200 lbs shipping.
USED-NOT TESTED less 4CX5000, $3200.
Eimac 4CX5000J tube, unused, $450 w/set puchase

+ + + + + + + + + + + + + + + + +

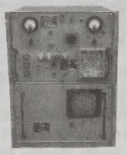
208U10 POWER AMP, similar to 208U3 except 10 KW out using 4CX10000D tube; 40x70x27.5, 1500 lbs shipping.
USED-NOT TESTED less 4CX10000D, $3900.00
MANUAL for 208U10, partial repro, $45.00

VISIT OUR WEBSITE AT FAIRRADIO.COM

RF-1310 HF EXCITER

HARRIS RF-1310 HF EXCITER, microprocessor controlled set produces 100 mw RF output over 0.4 to 29.9999 Mhz AM-USB-LSB-CW in 10 Hz increments; provision for 100 preset channels. LED readouts & push button entry of frequency & function + signal meter. Stability 1 pp 10 MM /day using internal 1 MHz standard. Requires 115/ 230 VAC 48-63 Hz; 7.5x19x22, 45 lbs sh. USED-EXC, $1495.00

1 KW POWER AMP



RF-110A/RF-124 POWER AMP SET, "lazily" amplifies output of RF-1310, T-827, RT-618 and similar exciters to 1000 watts PEP SSB-AM using two 4CX1500B tubes driven by two 8122's. Output adjustable down to 10 W. Frequency selection of 2-30 Mhz in 19 bands or automatic for RF1310. RF-124 POWER SUPPLY powers RF-110A from 230 VAC 50-60 Hz 1 phase 20 amp input. W/ interconnect plugs (not wired) & system operator's manual. RF110A: 12.4x17.4 x20, 95 lbs. RF124: 12.3x17.4x19, 175 lbs. USED-EXC not-tested $1795

+ +

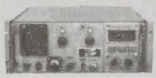
RF-130AR TRANSMITTER SET, consists of RF-1310 exciter, RF-110A amp & RF-124 supply described with Operator's Manual (no schematics), $2750.00

+ +

PP-3916 230 VAC 50/60 Hz 3-PHASE SUPPLY for above or URT-23. Output 2250 VDC 1.2 amps, 500 VDC 900 ma, 115 VAC 60 Hz 185 W, 115 VAC 400 Hz 70 W. 7.1x17.4x19.9, 160 lbs sh. USED, $165.

RF-601 A/C COUPLER CONTROL, powers and controls signals Manual-Silent-Auto to RF-601A 1 KW antenna coupler or CU-938/URA-38. Has 2.5"dia meters and circuit cards; no interconnect plugs. Requires 115 VAC 48-63; 5.2x19x8.7, 25 lbs. $125.

HARRIS HF EXCITER



HARRIS RF-131 EXCITER, solid-state unit produces 100 MW output over 2-29.9999 MHz RATT-AM-CW-USB-LSB-2ISB-4ISB using thumb-wheel switches. Channels A1 & B1 with Input Level controls; also meter for Input Level, Carrier -Infinity/-20/-10 dB, and 7-pin mic connection. Requires 115 VAC 48-63 Hz; 7x19x21, 45 lbs sh. USED, $750.00

+ +

RF130-01 1 KW TRANSMITTING SET, includes RF-131, RF-110 power amp, RF-124 230 VAC 1-phase supply and most necessary interconnect connectors (not wired); 325 lbs. USED-not tested, $1995.

500 WATT HF AMP

AM-2061/URT (Collins 367A) HF POWER AMPLIFIER, part of AN/URC-32 (KWT-6) 2-30 MHz transmitter. Amplifies 0.15 watt RF input and produces 500 W PEP output using two 4CX250B tubes driven by two 6CL6's. Has switch for bands 2-3.7, 3.7-7.7, 7.7-15.7 and 15.7-30 MHz; separate vernier controls for DRIVER & PA TUNE and Plate Current meter. TNC input & N output conn. Requires +2000 VDC 500 ma, +400 VDC 80 ma, 28 VDC unfiltered and 115 VAC 60 Hz. Not standard 19" rackmount. With schematic & block diagram. 7x19x7, 25 lbs sh. USED, $235.00

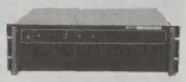
HF-80 KW POWER AMP

ROCKWELL HF-8023 POWER AMPLIFIER, solid-state 1 KW (avg) amp utilizes one driver plus four 250 W power modules to achieve rated output; VSWR: 1.3:1. Designed for use with HF-8014A exciter and power supplies HF-8031 or 8032. Cables & manuals not available. HF-8023 (622-3490-207): 10.5x19 x25, 62 lbs sh. USED, not tested, $2950.00

HF-8032 POWER SUPPLY for HF8023; 208/220/ 230/ 240 V 57-400Hz 3 phase in. 9x19x24, 90 lbs. $500.

HF-8030 (622-3383-001) POWER SUPPLY for HF-8020 power amp; 90 lbs sh. unused, $1500.00

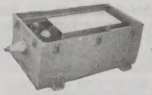
+ +



HF-8064 4-CHANNEL HF PRESELECTOR, auto-tuned bandpass filter for HF-8054 receiver & HF-8014. Provides front-end selectivity & overload protection for Rx; improves cross-modulation & out-of-band intermod. Power: 100/115/215/230 V 47-63 Hz. 5.3x19x24, 32 lbs shipping. #622-3522-203, used, ~~$895~~ $795.00

HF-8064 UNUSED, $1095.00

+ +



HF8040A AUTOMATIC ANTENNA COUPLER, matches antenna to power amp over 1.6-30 MHz ISB-USB-AM-CW 1 KW average, 1260 W PEP. Has control logic card, vacuum caps USLPA-500-6 & USLS-500-5 and large inductor coil. Aluminum outdoor enclosure; 115/230 VAC 50/60 Hz. 15x39.3x21, 100 lbs #622-3515-001, GOV'T RECONDITIONED, $995

MANUAL for CU2294 (HF8040A) partial-repro, $35.

+ +

HF-8023 (622-3490-207) 1KW Power Amp, $2950

HF-8031 1-Phase AC Supply for HF-8023, $1500

HF-8032 3-Phase AC Supply for HF-8023, $500

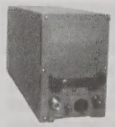
1 KW AMP

SUNAIR GSL-1900A 1 KW POWER AMPLIFIER with PS-1900A power supply, 1.6-30 MHz 1 KW PEP/ average using 4CX1500 tube. Tunable automatically when used with GSB-900 SSB transceiver or GSR-924 exciter or locally. RF drive required: 40 watt max. Frequency bands 1.6-2, 2-3, 3-4, 4-6, 6-9, 9-13, 13-20, 20-30 Mhz. Meter and switch monitor circuit voltages plus Status & Fault indicators. Interconnect cables/plugs not available. Requires 115/ 230 V 50-60 Hz. GSL 14.3x18x21.8, PS 9x18x21.8; 225 lbs sh. USED-not tested w/manuals, ~~$1995.~~ $1650.00

+ +

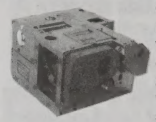
GCU-1935 ANTENNA COUPLER for GSL-1900A, 12x31x23, 52 lbs sh. USED $425 w/GSL puchase.

400 W HF POWER AMP



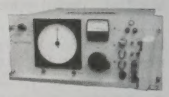
AM-4573/ARC-123 HF POWER AMPLIFIER, used with 2-29.9999 MHz SSB aircraft radio set to produce 400 W SSB PEP using two RCA 4633 Tubes. TNC RF input & N output connections plus Running Time Meter. Also ten Jennings RJ1A 26 VDC vacuum relays and gold-plated feed-thru caps. Requires 115 V 400 Hz 3 ph; 7.6x5x15.3, 24bs USED $250

CLASS C POWER AMP



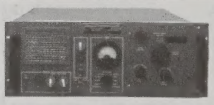
CLASS C POWER AMPLIFIER removed from T-195/GRC-100 watt transmitter; uses 4X150D tube to cover 1.5 to 20 MHz in ten bands using variable and fixed capacitors, switches, and 400 Hz servo motor. Chassis also has discriminator and servo amp. Requires-1000 VDC modulated, -250 VDC, -45 VDC & 115 V 400 Hz for motor. W/tubes 4X150D, 5751, 6AQ5, 5763 and schematic. 9.5x8.5x6, 15#. PA/T195, used, $27.00

DRIVER AMP



WESTREX 9200B DRIVER AMP uses two 8117 tubes which drove 4CX3000A in separate amp (not available). Continuously tunable 1.5 to 31 MHz; has meter to monitor volt levels. Requires 115/230 VAC 50-400 Hz; 819x8.5x21, 150 lbs sh. USED, $295.00

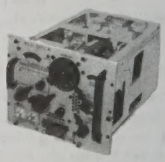
UHF POWER AMP



AM-6155/GRT-22 POWER AMPLIFIER (ITT 3212) conservatively rated for 50 watt output from 10 watt exciter input over 225-400 MHz; uses Eimac X651Z/8930 or Amperex DX393 tetrode (no choice) in silver-plated cavity-drawer; 175-turn TUNE counter dial. Main chassis has solid-state power supply and buffer amp/mulitplier; panel meter monitors voltages. Requires 105/120/210/ 240 VAC 50-400 Hz and +20 V reg 60 ma, +20 V keyed; w/schematic info. 7x19 x18.5, 80 lbs sh.

USED-excellent-NOT TESTED, $235.00

602-999 MHz Oscillator



AM-1957 AMPLIFIER-OSCILLATOR, 601.5 to 999.5 MHz plug-in for T-893/GRC-50 transmitter. Utilizes three 7289 tubes as 651-1049.5 MHz oscillator, -50 MHz mixer and 15 watt power amp. Directional coupler detects Reflected Power and provides monitor output for external meter circuit. RF passes through duplexer having identical receive/transmit sections each with two cavities. (Receive signal routed to separate AM-1955 receiver module.) Transmit RF then moves to second directional coupler which detects Reflected Power also with output for external meter. Wavemeter samples output RF for frequency measurement using calibration chart. Cathode current of each 7289 regulated by external 250 VDC, 650 VDC, 800 VDC, 5.7 VAC, 5.5 VAC. Schematic and info included. 8.9x11x16, 36 lbs shipping USED, ~~$99.50~~ $65.00

+ +

AM-1955B/GRC AMPLIFER CONVERTER used with R-1148A/GRC-50 receiver for 600-1000 MHz band; 60 MHz IF. Uses 4037A/2C40A tube as oscillator; also 5654, 2/5842. W/ wavemeter & calibrate book. Requires 150 VDC, 6.3 V. 15x9.5x8, 30 lbs shipping. ~~$45~~ $30.00

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

100 to 225 MHZ AMP

AM-912/GRC AMPLIFIER-MULTIPLIER plug-in for T-302/TRC transmitter; covers 100-225 MHz FM @ 100+ watts using 4X150A tube. Controls Grid & Plate Tune and Amp Output Coupling. Requires +750 V, 200-350 V screen, and 6.3 V filaments; with schematic. 12x6x14, 24 lbs sh. USED, $69.50
AM-915, 225-400 MHz; 4X150A, 4X150G. $85.00
AM-1178, 400-600 MHz; 4X150A 4X150G. $75.00

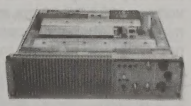
+ + + + + + + + + + + + + +

AM-914/TRC AMPLIFIER-CONVERTER, plug-in for R-417 receiver in 225-400 MHz range. Continuous tuning of RF and oscillator; 30 MHz IF. Modify and use as down-converter ! With tubes 5670, 4/6J4. Requires 150 VDC & 6.3 V . 7.5x6.5x9.5; 15 lbs sh. USED, $35.
AM-1179/GRC, 50 to 100 MHz, used, $39.50
AM-1177/TRC, 400 to 600 MHz, used, $44.50
AM-3203A/TRC, 1.35 to 1.9875 GHz, used, $49.50

HF Receiver Amplifier

HF LINEAR RECEIVER AMP LIFIER, 2 to 30 Mhz dual channel solid-state unit amplifies RF signals for receivers to "pull in" the weak stations for the shortwave listeners. Each channel is capable of 1 to 1.5 watts with gain of 20 DB. Ideal basis for QRP projects, receiver preamps and exciters! Tuned circuits could be put between the cascaded channels. Each channel consists of plug-in modules: input bandpass filter, preamplifier, power splitter (2 emitter followers), power amp, and monitor amp. TO-5 style transistors; connectors are TNC but could be replaced with single hole mount BNC. Aiken mfg; schematic not available. Requires 115 VAC 50-400 Hz; 3.25x19x19, 30 lbs shipping.
#AE-3300-42889, used-reparable, ~~$125.~~ $99.50

Preselector / RF Amp

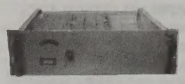


TN-612/G PREPOST SELECTOR, consists of RF preselector and broadband power amp. Preselector operates in four bands 1.8-3.6, 3.6-7, 7-14, and 10-24 Mhz. Microprocessor-controlled unit has no front panel controls except ON-OFF and indicators for OV DE, OVL, ATT, BITE, TUNE plus silver-plated coils and 3-gang variable capacitor. Frequency is selected by twelve Kilovac HC-1 vacuum relays and nine mini-coax relays along with motor interface adapters. Relays actuated by driver transistors. RF power amp uses four transistors S15-28, T9-0664 and two MRF-466 as output amplifiers. P/o GRC-215 HF-SSB system; no further info at this time. Requires 115/230 VAC 50-60 Hz; 4.5x19x17, 46 lbs sh. UNUSED, $250.00

HF Pre-Post Selector

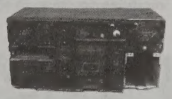
RF-551A PRE-POST SELECTOR highly selective bandpass filter for 2-29.999 Mhz range functions as preselector for enhancing receiver signal reception or as post selector for reducing exciter output noise when used with 6 db pad (not supplied). 5-decade freq-control knobs & Hi-Lo Gain switch; N conn. Requires 115/230 VAC 47-420 Hz; 5.3x19x20, 36 lbs. USED-excellent, $350.00. Manual, partial repro, $20.

UHF PRESELECTOR



F-1506/G UHF TUNABLE BANDPASS FILTER /PRESELECTOR covering 225-400 MHz dial tuned. Consists of Lark Engr. FX4000-089 filter with N conn in rackmount package. 5x19x18, 25 lbs sh. USED, $95.00

BC-653A TRANSMITTER



WW-2 vintage xmitter p/o SCR-506; operated over 2 to 4.5 MHz AM-CW @ 50-90 watts CW, 10-25 W AM. Has both meters and all controls except LESS LF-HF variable TUNING drawer and panel covers. W/ tubes 2/0C3, 807, 2/814, 2/1613. Requires DM-42/43 12/24 VDC dynamotors and mount rack for power connections (neither available). 12.5x 25.6x14.6, 120 lbs sh.
USED-INCOMPLETE, $195. LESS TUBES, $145.00
MANUAL for BC-652/653 (SCR-506), $10.00
BC-658 SWITCH BOX for intercom use, $12.00

* *

T-195/GRC-19 TRANSMITTER, 1.5-20 MHz AM-CW-FSK; 100W max. Requires 22-30 VDC 42 A for dynamotor; less VU-meter, 135 lbs. used, $205.00

VHF TRANSMITTER

T-949 VHF XMITTER part of AN/GRT-18 , solid-state, single crystal-controlled channel in 120-152 MHz range . T-949 transmitter has meter to monitor Oscillator, Buffer/ Doubler, Output 30 W Forward/ Reflected, Modulation 0-100%, Voltage. Trimmer controls: Carrier PTT-ON, Mod/ RF/ Mic Gains. Manual not available. Requires 105-130/210-260 VAC 47-400 Hz. Each 7x19 x17.5; 31 lbs shpg. USED-excellent, $50.00

SSB HF TRANSCEIVER

RT-594/ARC-38A AM-LSB-USB HF TRANSCEIVER, 2.0 - 25 MHz using 20 preset channels with autotune channel change. Stabilized master oscillator allows possible 35250 channels in intervals 500 Hz (2.0-7.25) and 1000 Hz (7.25-25 MHz). Output 100 W PEP < 14.25 MHz; 90 W > 14.25 MHz. SSB sensitivity 1.5 uv for 10 DB S+N:N. Selectivity 3 KHz min 6 DB dn; 8 KHz max 60 DB. Has 25 tubes with 3/ 6159 in P-A. Requires +28, +600, +250, -50, -65 VDC & 6.3 VAC; Al-so 115 V 400 Hz for selsyn on inductor. 15.5x8 x2.5, 80 lbs. USED, $175.
MANUAL, partial repro, $22.

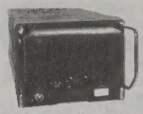
+ +

COLLINS 618S1, similar to RT-594/ARC-38A except not SSB; crystal-controlled (no VFO). USED, $75.
C-1398/ARC-38 CHANNEL CONTROL BOX, for RT-311; function switch can be modified to allow use with RT-594. Fronts may be chipped or cracked; less freq-setting book. 8 lbs. USED,$17.50
SETTING BOOK for C-1398/C-3428, repro, $10.00

+ +

COLLINS 180L3 AUTOMATIC ANTENNA COUPLER for use with ARC-38 or similar radios in 2-30 MHz range @ 50-180 W. Automatically resonates antenna to radio frequency and couples RF. Includes 7-1000 pf 3 KV vacuum variable capacitor & 28 uH variable ribbon inductor; UHF connector. Requires 28 VDC 3 amps, 250 or 400 VDC 5 ma & 115 V 400 Hz 20 VA. 10.5x7.8x11.5, 24 lbs sh. USED, ~~$115.00~~ $90.00
MANUAL, partial-repro, $10.00

1 KW POWER AMP



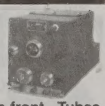
T-730/TRC-75 TRANSMITTER, functions as 1 KW PEP (400 W AM-SSB) 2-29.999 MHz linear power amp when used with R-761/ARC-58 Receiver which supplied 200 MW PEP input drive. Uses three 4CX250 tubes in P-A; tuned by servo amplifiers and motors. Requires 115 VAC 400 Hz 3 θ for power supply with outputs 2000 VDC 500 ma, 400 VDC, 27 VDC, 6.3 VAC, -40 to -80 VDC and 115 V 400 Hz 1 θ for servo motors. With tubes 2/6CL6, 5896, 3/4CX250. C-3141 Control required for channel selection. 7.8x10.3x24, 55 lbs. USED, $275.00
SCHEMATIC for T-605, $6.00

R-761/ARC-58 RECEIVER, companion receiver and exciter to T-730. Requires 115 VAC 400 Hz input. 7.8x10.3 x23.5 55 lbs sh. USED, $175. SCHEMATIC, $6.00 with set purchase.
C-3141 CONTROL for freq-select; 6 lbs. USED, $25.
CONNECTORS for above $5 each w/ set purchase

* *

MODULES from AN/ARC-58 or TRC-75 radio sets. Each 4.8x4.5 x1.5, 2 lbs sh. USED-not tested:
AM-1523 AMPLIFIER DETECTOR, 4x 5899 tubes; p/o R-761, $17.50
AM-1525 or AM-1733 ELECTRONIC CONTROL AMPLIFIER p/o T605/T-730 xmitter, $15.00 ea
AM-1526, similar to AM-1523, $17.50 ea
AM-1528 AMPLIFIER-MIXER for R-761 with ten tubes and slug rack, $45.00; Schematic, $3.
AM-1529 AMPLIFIER OSCILLATOR with Collins mechanical filter P455 Z1, $28.00
CV-465 MIXER OSCILLATOR, for R-761; oscillators master 70H13A, interpolation, spectrum generator Mech filters F455 Q2 & Q3. $55. Schematics, $10.
MD-286 BALANCED MODULATOR with mechanical filters F300 Z4 and F300 Z5, etc. $30.00
SG-179/URC REFERENCE GENERATOR, $20.00

ARC-60 ITEMS



R-508 AIRCRAFT RECEIVER, 118 to 148 MHz AM continuously tunable, but does not have dial; tuned remotely using control box with MC-215 flex spline (not available). 15 MHz IF; binding post & BNC antenna connections on front. Tubes 12A6, 14A7, 14F7, 2/14R7, 9002, 3/9003. Same as R-19; p/o AN/ARC-60 & ARC-type 12. Requires 250 VDC 60 ma & 28 VDC. 6.5x5x11.8, 15#. USED, $20.

R-11A RECEIVER, similar to R-508 but 190-550 KHz & tubes 12A6, 2/14A7, 14F7, 14R7, 14S7. Used $35
C-22 CONTROL 108-136 MC dial & crank. Used $15
MT-1140 MOUNT for R-19 or CV-431, USED, $4.00
D-10 28 VDC DYNAMOTOR f/ R-11/R-508, USED $7.

T-363 (T-13A) Xmitter, 4 channel 132-148 MHz range (no xtals); 4/5763 tubes. USED, $24.00

O-423/AR OSCILLATOR-RELAY provides 1 KHz tone for "whistle-thru" tuning of ARC-60. 3.9x5x2, 3 lbs. UNUSED, $15.00

CV-431/AR FREQUENCY TRANSVERTER, p/o ARC-60 set: receives RF in 228-256 MHz range and converts them to 118-148 MHz for reception on R-19 receiver. Also transmits over 228-256 MHz AM on 8 crystal channels; 1/2 watt output. (Crystals not included.) With tubes 3/5763, 6201, 6360, 6939. Requires 28 VDC and +250 V. 4.8x4.8x11.5, 9 lbs. UNUSED, $22.

VISIT OUR WEBSITE AT FAIRRADIO.COM

COLLINS 618T

COLLINS 618T-2 SSB AIRBORNE TRANSCEIVER, 2-29.999 Mhz SSB-AM-CW in 28000 channels. Power output: 400 watts SSB-PEP 125 W AM-CW; 52 ohm output imped. Sensitivity SSB: 1 uv for 10 db S+N/N. Selectivity SSB: 2.85 Khz, 6 db down; 6.0 Khz 60 db. Audio input: 600 ohms. Uses two 4CX250's in P-A. Switch & meter monitor internal power. Separate control necessary for channel select. Racks & cables not available. Requires 115 V 400 Hz 3 phase 1 KVA & 1 phase 160 VA; also +27 VDC 4.5 amps. W/ manual repro; 7.6x10x22.2, 58 lbs. USED-REPARABLE with K9 oscillator, $495.

#618T-3, like above but requires 28 VDC 35 A and 115 V 400 Hz 1 phase 100 VA. USED, $600.00

MODULES FROM COLLINS 618T HF TRANSCEIVER, as removed from equipment--not tested:
AM AUDIO AMP #546-6053, has mech filter F500 Y60 (526 9378); 2 lbs sh. $40.00
IF TRANSLATOR #544-9286, has LSB-USB filters F500 Z4 (526 9377) & Z5 (526 9376), $65.00
KC- FREQUENCY STABILIZER, has mechanical filter F250 F100 (526 9410) and crystal filter X250KF440 (526 7006); 3 lbs sh. $35.00
RF TRANSLATOR with K9 oscillator, 15 lbs., $200.

618T RF REFERENCE OSC. MODULE, includes 3 MHz crystal oven which is divided to 500 KHz output, amplified and then divided again to produce 100 KHz output. 4.3x6x2.7, 2 lbs sh. #528-0251-005, used, $35.00

+ + + + + + + + + + + + + + + + + +

RT-712/ARC-105 HF TRANSCEIVER, pressurized 618T2; modules intechangeable. Covers 2 to 29.999 MHz SSB-AM-CW in 28000 channels. Front has hour meter, C and BNC connections. Separate control needed for freq-selection. Connectors not available; same power input as 618T2 10.5x 11.5x23, 70 lbs. USED, $375.

C-6454/ARC-112 CONTROL BOX usable with 618T or RT-712; channels, LSB-UB-AM select & RF SENS. 3 lbs sh. USED, $45.00 w/618T purchase.

Collins VHF Tx-Rx Set

AN/ARC-73 AIRCRAFT RADIO SET designed by Collins; consists of T-879 (17L-7A) transmitter, R-1123A (51X2B) receiver, C-4074 (614U) control and MT-2699 rack. T-879 covers 116 to 149.95 MHz AM in 50 KHz steps (680 channels) with 25 watt output to 133.95 MHz and 20 W min. above. Sidetone level 100 MW into 500 ohms; mic impedance 100 ohms. R-1173A covers 108 to 151.95 MHz in 50 KHz steps (720 chanels). Sensitivity 3 uv; audio output 500 ohms. Both have antenna input impedance of 52 ohms and require 27 VDC (7.3 amp max transmit) power. Both utilize tubes and transistors. C-4074 control sets frequency on mechanical counter and has Volume, Squelch, and On-Off functions. Mating connector not available. MT-2699 rack is unused but is missing connectors. Operator's manual and schematics included; 9.5x8.5x16, 40 lbs sh. USED $149.50
T-879 TRANSMITTER only; 20 lbs sh. USED, $69.50
R-1173A RECEIVER only; 19 lbs sh. USED, $75.00
C-4074 CONTROL BOX for frequency selection, volume control , etc; 3 lbs sh. USED, $12.50

FM TRANSCEIVER

MAGNAVOX FM-622 (RT823/ ARC-131) AIRBORNE TRANSCEIVER, covers 30-76 Mhz FM in 920 channels, 50 Khz steps. Output 1 watt in LO; 18 W max HI @ 29 VDC RT has Squelch Disable & Adjust, Test switch. Meter monitors +24 V-+16 V-AGC-RF FWD- RF REFL-OFF. Control box provides channel select, Volume, Squelch, OFF-TR-RE-TRAN HOME switch. Has some modules common to RT-524/VRC-12. Requires 24-29 VDC 4 amp max. Rack & cables not available. 7.8x 5.9x15.6, 31 lbs. USED w/control box, $250.00

ARC-51BX UHF TX-RX

RT-742/ARC-51BX UHF AIRCRAFT TRANSCEIVER, 225-399.99 MHz AM in 3500 available channels, 50 KHz spacing; also has guard channel. Output 16 watts min. RF impedance 52 ohm input & output. Audio and mic impedance 150 ohms. Includes ID-1003 SWR indicator; separate control box necessary for function & freq-selection. W/ tubes 4/ 7077 and 4/ 7544; requires 27 VDC 13 amps. 7x9.5x15.1; 35 lbs. USED,$250.00

ARC-109 Transceiver

RT-749/ARC-109 UHF AIRCRAFT TRANSCEIVER, solid-state Collins unit operates on 225-399.95 MHz AM, DSB and A3 phone @ 30 watt min. 3500 available channels in 50 KHz intervals plus 243 MHz guard channel. Uses 4631 tube in P-A; 150 ohm audio/ mic impedance. C-6364 control necessary for channel select; cables & racks not available. Replaced ARC-27-34-51-52. Requires 115 V 400 Hz 3 phase. 6.8x9x16, 29 lbs. USED-REPARABLE, ~~$695~~ $350.
SCHEMATICS f/RT-749, repro, $12.00 w/set purch.
C-6364/AR CONTROL, used, $45 w/set purchase.

ARN-30D VHF Receiver

R-1021/ARN-30D VHF RECEIVER covers 108 to 126.9 MHz AM in 100 KHz steps (190 channels); originally part of air navigation system. 1st IF 11.7-12.6 Mhz; 2nd 1.7 MHz. Electrically turned crystal turrets with freqency displayed on side panel. Adjustable squelch; 300 ohm audio out. 50 ohm input impedance; BNC connection. Tubes 5718, 5840, 5896, 4/5899, 5902, 6021, 6112. Requires 28 VDC 1.8 A and 260 VDC 85 ma. 5.5x11.4x4.6, 10 lbs sh. USED, $29.95
C-3436/ARN FREQUENCY CONTROL, used, $15.00
Operator MANUAL f/ ARN-30D, part-repro, $7.50

Sonobuoy Receiver

R-1170/ARR-52A VHF RECEIVER 162.5-173.5 MHz AM, FM and video using 31 crystal-controlled channels. Solid-state sonobuoy receiver consists of five plug-in modules; 26 MHz 1st IF, 5 MHz 2nd IF. Conversion possibilities for 2 meters, VHF weather, satellite TV, etc. (See Oct '74 CQ Mag.) Requires external control and 18 VDC. 7.5x2.5x10, 9 lbs. USED, $19.95. SCHEMATIC, $4. w/ set. MANUAL, partial repro, $15. w/ set.

USB Receiver-Exciter

RT-662/GRC-106 TRANSCEIVER, 2 to 29.999 Mhz USB-AM-CW-FSK; tunes using 5-decade mechanical switches to 1 KHz steps + vernier. Exciter output 100 MW. Controls: Service Selector, PA Load, Squelch, Noise Blanker, BFO and audio functions. LESS Signal Level meter. Requires 24 VDC 10 amp; 7x18x13, 56 lb sh.
USED: "AS-IS" not tested/LESS meter, $275.00
"CHECKED" with meter (not original), $450.
RT-834/GRC-106A, similar to RT-662 above but 2-29.9999 MHz, 0.1 KHz increments. USED: "AS-IS" no meter, $300. CHECKED w/meter $495.

+ + + + + + + + + + + + + + + + + + + +

GRC-106 MODULES for RT-662 and RT-834, most modules available except 1A3 Freq-Standard removed from "used" radios. Specify module # and RT #; 2 lbs sh each. Price: UNTESTED, $20 ea Add $20 per module for "CHECKED" modules.

+ + + + + + + + + + + + + + + + + + + +

AM-3349/GRC-106 POWER AMP for RT-662/834; amplifies 100 MW RT output to 200 W AM or 400 W PEP. Uses two 4CX350FJ tubes. Requires 28 VDC 1 KW max; 77 lbs. USED-"AS-IS", less meters, ~~$525.00~~ $400.
MANUALS, partial repro: GRC-106/106A, $40.00
OPERATOR'S for GRC-106A, $10.00
H-33/PT HANDSET, used-checked, $17.50
M-29B MIC, used, $12. H-227 Headset, $16.95
LS-166 SPEAKER, used, $16. Wall bracket, $3.00
AB-652 MAST BASE, 6 lbs sh. USED, $20.00
MT-3140 MOUNT & SIDE PLATES, 25 lb. Used, $35.
CX-10099 INTERCONNECT CABLE, used, $20.00
CX-10171 ANTENNA CABLE, 4 lbs. Used, $22.00
MX-777B Suppressor see pg 23 for description $17.50

+ + + + + + + + + + + + + + + + + + + +

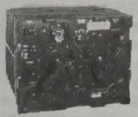
MD-522A/GRC MODEM, modulator-demodulator for GRC-106/ 106A HF radios and teletypewriters TT-4A, TT-76, TT-98, UGC-4 or UGC-74. Permits transception of voice, narrow (NSK) or freq (FSK) shift keying, freq-diversity and NSK +voice. One-way or duplex Send-Receive. Internal loop voltage 120 VDC 60 ma max. Has 2BP1 CRT, U-77 mic & 600 ohm audio connections. With "non-original" volt-current meter for customer to install. Requires 24 VDC 1.4 A; 7x18x13, 41 lbs. shipping. USED, $165.00 Manual repro, $25.00
Power Connector, $7.50; MT-3140 Mount, $20.00

2-15 MHz Transceiver

AN/GRC-165 RADIO SET (HARRIS 301/302), solid-state unit covers 2 to 15 MHz USB-LSB-AM-CW in 1 Khz steps; output 100 watts PEP SSB, 25 W AM nominal into 52 ohms. Consists of RT-902 (RF301) transceiver, CU-1782 (RF302) antenna coupler, C-7648 remote box w/speaker, two shockmounts, four 4 ft antenna sections, AB-1082 mast base, AC & DC power cables. RT-902 controls PA TUNE PRESELECTOR and 4 decade FREQUENCY SELECT. Also MIC connection and built-in speaker. Requires 115/230 VAC 50-60 Hz or 24 VDC. CU-1782 is manually tuned with 3-digit LOAD and FINE TUNE counters. Also COARSE TUNE 1-10, 0-200 wattmeter and FOR-REF POWER switch. Uses 10 uH & 18 uH roller inductors, fixed capacitor banks and SWR bridge. C-7648 has built-in speaker & handset connection. RT: 7.8x18.5x14.3, 65 lbs. CU: 7.8x5x14.3, 9 lbs. SET sh wt: 125 lbs. USED-REPARABLE, $545.00

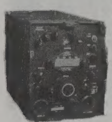
CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

VRC EQUIPMENT



RT-68/GRC TRANSCEIVER, 38-54.9 MHz FM continuously tunable or 100 KHz-step channels. Receives and transmits both voice and 1600 Hz ringing FM; range 10-15 miles. Receiver circuit has variable 1st IF 4.45-5.45 MHz and fixed 1.4 MHz 2nd IF; also squelch and 600 ohm audio output. Transmitter uses crystal-controlled oscillator and oscillator power amp; power output 2 watts (LO) or 15 W (HI). Also meter to monitor xmiter filaments and 90 V input. Requires PP-109 or -112 power supply. Tubes 4/1U4, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1AE4, 1S5, 4/3Q4, 3A4, 3/3A5, 2/3B4, 6AK5. 9x13x11.3, 42 lbs sh. USED, $115.00

PP-112/GRC 24 VDC SUPPLY for RT-66-67-68 transceivers; provides all voltages from 24 VDC 6.5 amp input. Case may have casting chip(s); 7.3x9 x13, 39 lbs sh. USED, $27.50.
GOV'T-RECONDITIONED, $55.00
PP-109 SUPPLY, 12 VDC 12 A input. USED, $35.
CX-1211 INTERCONNECT CABLE, RT: PP units, $9.



R-108/GRC RECEIVER, 20 to 28 MHz-FM continuously tunable with variable squelch; 4.3 MHz I.F. Audio output: 600 ohms. RF input: 50 ohms. With tubes 3/1U4, 2/1L4,1A3, 2/3A4, 1S5, 2/3Q4, 2/6AK5 & 0B2. Requires 135 VDC @ 70 MA. and 6.3 VDC 2 amps. 7.5x9x132; 32 lbs sh.
GOV'T-RECONDITIONED, $55.00
R-109 RECEIVER, same as R-108 except 27-39 MHz. GOV'T-RECOND, $59.50

GRC AUDIO AMP

AM-65/GRC AUDIO AMPLIFIER, 3-channel audio for RT-70 transceiver; also works as power supply when PP-281 or -282 modular supply is installed inside AM-65. 4.4x8 x13, 17 lbs sh. USED, $22.50; GOV'T-RECOND. $50
PP-282 POWER SUPPLY, allows 24 VDC operation of RT-70/AM-65 or R-108-109-10; 6 lbs. USED, $15.
PLUGS for RT70/AM65 interconnect, used $3.50 ea

30-75 MHZ FM RADIO

RT-524/VRC TRANSCEIVER, standard FM military vehicle radio since 1960's; operates over 30 to 75.95 MHz FM in 50 KHz steps in two bands. Out-put: 0.5-8 W (LO), 30 W (HI). Has squelch, built-in speaker. Requires 24 VDC 10 amps. Includes MT-1029 mount, power cable and handset. 15.4x6.5 x13.5; 78 lbs sh.
USED-NOT TESTED, $625. RT-524A/VRC, $675.00

Harris HF Transceiver

RF-5022 Transceiver, 1.6 to 30MHz HF/SSB, 99 channel scanning, key pad programming, $2250
RF-5032PA-125 Power Amp for RF-5022, 125 W, write
RF-5051PS-125 Power Supply for RF-5022, write

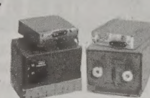
AN/URC-101 SATCOM TRANSCEIVER 116-150 & 225-400 MHz AM-FM 8360 channels; 1.5/5 W Lo/Hi. 115 VAC supply; no antennas; 28 lbs. USED, $1750
POWER SUPPLY FOR URC-101, USED, $225.00

GRC-109 POWER SUPPLY

PP-2684/GRC-109 POWER SUPPLY provides voltages for RT-3/T-784 and R-1004/RR-2 from 75-260 VAC 40-400 Hz or 6 VDC 13 amp input. Meter monitors AC input; connections for RX and Tx. 10x8.5x5.5, 28 lbs sh. USED, $29.95
PP-2684A, USED, $32.00
MANUAL for GRC-109, partial repro, $12.00
CN-590/GRC-109 VOLTAGE REGULATOR, for use with G-43 generator and R-1004; 6 ft cord with PL-244 plug; 4 lbs sh. USED, $14.95

2-12 MHz USB 100 Watt

RT-671/PRC-47 HF TRANSCEIVER, 2 to 11.999 MHz USB (voice and CW+800 Hz) in 1 KHz steps. Output 100 watts PEP (Hi) or 20 W (Lo). FSK possible with accessory converter (not available). Transistorized except for PL-177WA tube in power amp and 5907, 7761, and 7905. Has 5-place mechanical digital tuning, P-A Load and Tune controls, and XMTR Output Meter. Designed for field or vehicular use; operates from either 24 VDC 20 amps or 115 V 400 Hz. 7x21.3x13.5, 45 lbs. USED-REPARABLE, $150.
MANUAL for PRC-47, partial repro, $25.00
AS-1321 LONG-WIRE ANTENNA, 3 lbs., $15.00
H-33/PT HANDSET, used-checked, $17.50
LS-166 SPEAKER, used-checked $16.00
CX-8396 "Y" CABLE for H-233 to RT, $8.00
CX-8393 50 ft AC CABLE, $12.00
CX-8394 10' DC Cable, $10. CX-8395 CABLE $8.
BACKPACK FRAME only with harness, $12.50 BB-451 SILVER CELL BATTERY, 24 VDC 25 AH for PRC-41/47, 15 lbs sh. UNUSED, $225.00
CY-3700 ALUMINUM TRANSIT CASE, 65 lbs. $28.00



MODULES from RT-671/PRC-47 transceiver. Used not tesed:
AM-3506 AUDIO AMP has mic, sidetone, vox and compressor circuits of TX; AGC & audio for Rx. Requires 20 & 24 VDC. 4.3x4.3x2.8, 2 lbs. $15.
AM-3507 AMPLIFIER MODULATOR contains LSB 500 KHz mech filter F500-Z5 (#526-9376) plus balanced modulator and product detector. Requires 20 VDC; 4.3x4.5x1.3, 1 lb. $35. Connector set $6.
C-4311 CONTROL OSCILLATOR, 3 lbs. $25.00
CV-1377 SIGNAL DATA TRANSLATOR with tubes 5907, 7761, 7905; 5 lbs sh. $50.00
O-1032 RF OSCILLATOR contains 3 MHz crystal in oven; produces 500 and 100 KHz outputs. Requires 20 VDC; 4.3x4.5x1.3, 1 lb sh. $20.00
PP-3518 POWER SUPPLY, 16 lbs sh., $25.00

PRC-41 MANPACK

RT-695/PRC-41 UHF MANPACK UHF TRANSCEIVER, 225 to 400 MHz AM in 100 KHz steps counter; output at least 3 watts over range. Also has guard channel, Volume, Squelch, and U-77 connection for H-33 handset. Solid-state execpt for tubes 6442, 4/7077, and 4/7544. Requires 24 VDC 3 amps; 14x 11.3x4.5, 22 lbs sh.
USED-REPARABLE, $149.50
MANUAL for PRC-41, partial repro, $20.00
H-33/PT HANDSET, used-checked, $17.50
MT-2976 VEHICLE MOUNT for RT, 9 lbs sh., $25.
MT-2977 VEHICLE MOUNT for PP-3700, 4#., $9.00

PRC-25 Backpack Radio

RT-505B/PRC-25 TRANSISTORIZED BACKPACK TRANSCEIVER, 30-75.95 MHz FM in bands 30-52.95 MHz (Lo) and 53-75.95 MHz (Hi) with 50 KHz spacing. Output: 1.1 to 2.0 watts; 150 Hz squelch. Transistorized except 2DF4 tube in power amp. Requires 3 VDC 400 ma and 15VDC 1.4 amp supplied by BA-4386 battery. RT-505B has modified A25 audio module for broadband use with C-7673/PCC-1 and CU-2194 diplexer. 4x11x14, 18 lb USED-complete, $250.00
MANUAL for RT-841/PRC-77, partial repro. $20.
+ +
AT-892/PRC-25 RIBBON ANTENNA, used, $12.00
AT-271 WHIP ANTENNA, used $16.00
AB-591/PRC RUBBER BASE for AT-271, used, $7.
BA-4386/PRC BATTERY f/ PRC-25-77, "weak" 3/$5.
BB-5598 BATTERY,1995 X-date (no UPS or air), $4
CW-503/PRC ACCESSORY BAG, used, $7.00
H-250 HANDSET or = for PRC-77, USED, $18.00
OPERATOR'S MANUAL f/ PRC-77 & AM-2060, $10.
+ +

AN/GRM-55 TEST SET, used to check test points in modules of RT-505/PRC-25 transceiver and to isolate circuit problems. (Indirect tests only of modules A2, A12-13, A19-20.) Includes TS-1755 test unit, MX-4622 probe, CX-8593 cable assy and CG-409 BNC cable. Requires 12.5 VDC 1 W per 5 sec test. 5.5x7x8, 10 lbs sh.
GOV'T RECONDITIONED, ~~$77.00~~ $54.50

PRC-68 HANDHELD

AN/PRC-68B HANDHELD SYNTHESIZED TRANSCEIVER with low band 30-88 MHz module operation. Has ten channel frequency selector switch with LCD freq display; channels preset and/or changed by module programming with 23200 possible channels, minimum 12.5 KHz spacing. Power out: 0.5 to 2 watts depending on power source. Other features SPKR / MIC, antenna match selector, squelch disable, connection for H-250 or = handset. 130-174 MHz operation possible with separate "high band" TN-609 module (not available). Set includes 20" antenna. (Battery box is not available) Requires 12-16 VDC normally provided by batteries BB-588, BA-1588 or BB-5588 & other sources. RT: 3.8x1.5x10; 6 lbs sh. USED, $495.00
OPERATOR'S MANUAL, partial repro, $25.00
#AT-20/PRC-68B 20" antenna only, used, $20.00

PRC-68 TEST SET

TS-3354/PRC-68 TEST SET, designed to test receiver sensitivity and xmitter output of RT-1113/PRC-68 transceiver on Red-Green meter scale. Also FSM (field strength) readings to adjust antenna coupler and Battery Test function. Controls Dials A-B-C-D for Frequency Code & Function FSM-RCV-XMT-BAT. Includes FSM antenna and U-229 audio cable. Less antenna adapter. Will not test PRC-68B. In 11x6.5x7.5 fiberglass case; 12 lbs shipping.
USED-EXCELLENT, $99.50

VISIT OUR WEBSITE AT FAIRRADIO.COM

SEM-52 VHF RADIO

German-made unit can operate on six preset channels (2 supplied) in 47- 56.975 MHz FM range @ 300 MW; 25 KHz spacing. Has Off-On-Squelch (AUS-EIN-RSP), Volume & Channel (KANAL) select. Requires six AA-batteries. Includes RT, 35" ribbon antenna w/ flex base, "web" headset-mic and carrying bag. May not comply with FCC regulations. 7.1"Hx 3.4"Wx1.5"D, 4 lbs USED-clean, not-tested, $125.00

PRR-9 Handheld Receiver

GOV'T-RECONDITIONED each single channel with crystal for 51 Mhz FM: #PRR-9 RECEIVER with earphone, antenna, & operator manual. Requires 5 V 25 ma battery power; 7x 3.5x1.5, 3 lb. $40.00
MANUAL for PRR-9/PRT-4A, repro, $15.00

+ + + + + + + + + + + + + + + + + + + +

AN/PRR-9 (XE-9) SET, updated PRR-9 with "squelch"; requires 3 VDC input from BA-4534 battery (not available). With AS-1998 ant, earphone, lanyard & operator's book; 6 lbs shipping. UNUSED $89.50

+ +

AN/PRT-4 w/ antenna & battery box, USED, $20
AN/PRT-4 "AS-IS", less crystal, antenna, and battery box; for parts or experiment, ~~$16~~. $8.00

CHANNEL ALIGNMENT

ID-1189/PR CHANNEL ALIGNMENT INDICATOR for testing AN/PRR-9 helmet receiver and PRT-4 transmitter. 47-57 MHz FM signal generator; checks both sets' batteries. Operating info & probe included in cover; 12x11.5x6, 16 lbs sh. used $65.00

PRC-75 TRANSCEIVER

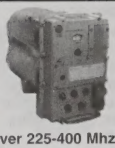
RT-976A/PRC-75 UHF TRANSCEIVER, rugged handheld ground-to-air tactical synthesized radio covers 225 to 399.95 MHz AM-CW in 50 KHz steps (3500 channels). Power output >1 watt. Has three thumb operated dials to set frequency; design frequency accuracy 1 part / 100000. Also has 1000 Hz audio beacon-DF tone. RF input 50 ohms; audio output 600 ohms. Requires 18-30 VDC from battery pack (not supplied); no accessories; 1.6x4.3 x8, 6 lbs. USED-REPARABLE w/ book, $250.

+ +

AS-2447/PRC-75 RIBBON ANTENNA, fastens to RT-976/PRC-75 225-400 MHz handheld transceiver; 14.6"L. snap fasteners. NEW, $10.00

UG-1884/PRC-75 ANTENNA ADAPTER, allows for BNC coax antenna connection. NEW, $9.95

DUAL UHF CAVITY



DUAL SILVER-PLATED UHF ANTENNA COUPLER CAVITY part of system which allowed four receiver/xmitters (140 W) to use single antenna. Each cavity 14.5"Lx6" dia has quarter-wave variable stub (0.2" per turn X 28 turns) over 225-400 Mhz. Input & output loop-coupled; cavities aperture-coupled. Also 8 tracking slugs. Un-loaded Q = 4000, loaded Q 700. Insertion loss 2 DB. (We attached a disk to the moving stub which reduced frequency to below 140 Mhz.) Unit has electro-mechanical drive for 19 preset and one manually selected frequency. With weather-tight aluminum cover. Requires 28 VDC, 6.3 VAC, 115 VAC 60 Hz for motor and chopper. 15x9.5x24, 45 lbs sh. #CU-SRA-33, USED w/info, $49.50

+ +

C-4586/SRA-33 CONTROL-POWER SUPPLY with cable for above, 45 lbs. USED, $75 w/set purchase.

+ +

AN/SRA-33 COUPLER SET in heavy aluminum frame. Includes four cavity-coupler units, power supply, cables, RF selector switch, four power meters & manual. 48x22x27, 350 lbs. USED, $225
MANUAL for SRA-33, partial repro, $15.

UHF Multicoupler

CU-547 ANTENNA MULTICOUPLER, Collins-made unit couples four transmitters or receivers in the 224 to 400 Mhz range to single antenna. Uses four silver-plated cavities each separately tuned with Megacycles & Revolution count dials + verniers. Meter and selector switch monitors SWR & Cal for each. 4 - N input connections; LC output conn. 19x24x23, 82 lb used $185.

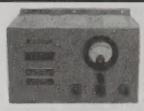
490T-1A COUPLER

COLLINS 490T-1A (CU-1669A) AUTOMATIC ANTENNA COUPLER for 618T and similar 2-30 MHz transceivers; rated RF input 630 W PEP, 200 W average. Matches 25 ft or longer whip or 25-100 ft long-wire antenna to 50 ohm line. Terminal for wire and "C" coax connection. Has 5-500 pf 10 KV vacuum varable capacitor and variable step-coil. Requires 115 V 400 Hz; 7.6x 10.1x12.6, 24 lbs. USED-not tested, $450.00

6 METER DIPLEXER

CU-2194/URC DIPLEXER, passive two-port notch filter and combiner network; allows simultaneous use of two transmitters, receivers, or transceiver on a common antenna provided that operating frequencies are slightly offset. Usable over 30-76 MHz FM for use with PRC-25-77 & VRC-12 transceivers; will work commercial 6-meter equip. Has NULL METER, TUNE controls, Fine-Coarse-Monitor MODE Switch and RT1-RT2 BNC connections. Unit may function as man-portable relay terminal. Maximum RF power to each channel: 65 watts continuous. Operational isolation: 45 DB min @ 2 MHz separation. Insertion loss: 2 DB max; VSWR 2.0:1 max. 4x11x7, 10 lbs. shipping.
UNUSED, $69.50; MANUAL, $10.00

600W POWER METER



ME-165/G STANDING WAVE-RATIO POWER METER, designed for use with T-368 400 W transmitter; uses 12/ 600 ohm 50 W non-inductive resistors in paralllel to provide 52 ohm 600 W load with SWR of 1.1:1 or less upto 30 MHz. Has 0-600 Watt meter, function switch Power-Adjust-SWR-Operate, & N connections. Flanged on back for wall mount. 1.5x9.8x9.8, 20 lbs
GOV'T-RECOND, $125.00; Manual, repro $8.50
ME-165/G, USED-GOOD-looking, complete, $45.00
ME-165 (or =) , USED-POOR-looking, $25.00

PRC-90 TEST SET

AN/PRM-32A RADIO TEST SET for AN/ PRC-90 UHF & PRC-106 VHF survival radios. Requires one radio as receiver and another as transmitter. Tests 243 MHz frequency for beacon, transmitter MCW-voice and receiver outputs. Also Tx-Rx voice outputs for 282.8 MHz (PRC-90) and 121.5 MHz (PRC-106), earphone & battery test. Has 1.8" square meter with Red-Green scale, TX-Rx connector adapters for hook-up &operator's info. 3x 5x4, 3 lbs. USED, $27.95; MANUAL, repro, $8.50

MILITARY BATTERIES

NOT RECHARGEABLE:

BA-40 for BC-620/BC-659 receive section, +90 and +1.5 V; 6 lbs weak $4.50

BA-48 for Rx sec-tion of RT-77/ GRC-9; 6-CD & 60 A-cells, 1.5 & 90 V. 10x2.2x4.8. 8 lbs "GOOD" $14.95; Weak $4

BA-314 for PDR-27F, 45 FL-3 cells, 67.5 VDC; 6/81 date. 2.8x1.3x2.5; 1 lb., $1.25

BA-416 for PDR-27C, +22.5-67-90-135 V; 10/84 date. 4x3x2.8, 2 lbs sh. $5.95; "Weak", 2/$4.00

BA-4386 for PRC-25-77, 12.5 VDC; 3/80 date. 3.5x9.5x2, 3 lbs sh. "WEAK" only, 3 for $5.00

+ +

MILITARY NICKEL-CADMIUM BATTERY PACK, four D-cell batteries in plastic pack produces 4.8 V 3.2 amp-Hr; 3/80 date code. 3.5x5.5x1.5, 3 lbs. #4D2704, 3 for $7.00

PRC-77 BATTERY

BB-5598 LITHIUM BATTERY for RT841/ PRC-77 radio; output 12.5 VDC. Two BB's fit RT battery box. Has discharge switch to make non-reactive after final use; 1995 expire date. Class 9 hazardous item; USPS Shipping ONLY. 3.5x4.8x2.1, 2 lbs sh. UNUSED, $4. 2 for $6.50

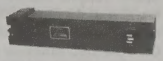
GRC/PRC Battery Test

AN/PSM-13 BATTERY TEST SET; checks GRC and PRC-type battery packs BA-270, -279, -376, -377, -4386/ 398/ PRC-25, -399, and -505. Meter indicates BAD-GOOD (FS=1 MA). With adapters U-240, -241, -314, -315, -347, -410 & canvas case. 7 lbs. USED, excellent, $24.95

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

PRC BATTERY BOXES

CY-6121/PRC-74 BATTERY BOX, aluminum box designed to clip onto RT-794/PRC-74A/B backpack transceiver and will hold ten BB-418 nickel-cadmium cells. Has swivel-legs to steady radio; 8.5x12x3.5, 7 lbs shipping. UNUSED, $37.50



CY-7541/PRC-104 BATTERY BOX, plastic box clips onto PRC-104 backpack radio set and will hold 16 silver-zinc (or =) batteries that provide 20-32 VDC. Side unscrews to insert batteries; 3.8x12.5x2.6, 4 lbs sh. UNUSED, $35.00

CY-744/5007 BATTERY BOX for PRC-8-9-10 backpack radios; aluminum; 3x9.5x9, 4 lbs. USED, $10.

GPS BATTERY BOX

AA-BATTERY BOX for Trimble Navigation Trimpack GPS receiver. Clips onto & allows operation of GPS from 8 - AA batteries (not included). 1.6x 6.5x1.5; 1 lb. #GPS-13828-00, NEW, $22.

Canvas Bags & Covers

BAGS & COVERS may be used or unused. May have minor wear, tears or discolor:

+ +

SHOULDER BAGS with adjustable straps; 5 lbs. sh. USED:

BG-175,	10x8x10.5,	$6.00
CW-189,	10x9x10,	$5.00

- -

ANTENNA ROLL BAGS for mast sections, used:

BG-56 for MS-49 thru 56,		$14.00
BG-174 for MS-116 etc,		$7.50
CW-206 for MS-116 etc,		$7.00

+ +

ST-120 PAD (used) with M1945 HARNESS (unused) for PRC-8-9-10 radios; 4 lbs. $12.50

+ +

GRC/VRC EQUIPMENT COVER

CW-140 for GRC-9,	used,	$10.00
CW-329 for GRC-3--8,	NEW,	$8.00

Radio Cables & Connectors

CX-4720/VRC DC Cable, 10 feet. $12.00
CX-4721/VRC DC Cable, 2.5 ft, $9.00
CX-4722/VRC Control Cable, 5 feet, $10.00
CX-4723/VRC Control Cable, 1 foot, $7.50
CX-7867 AUDIO CABLE, 25' U-229 /-228, $10.
CX-12195A Y-CABLE, 6 foot long with 5-pin MS-3II6-14-5S plug to fit U-383, 4-pin MS-3II6J--4P to fit AM-4979/6747 speakers & 3-pin SCD-39543 to fit MX-7777 suppressor; 3 lbs UNUSED, $14.
WM-46 CONTROL CABLE used in GRC-Series radio equip; rubber covered w/ braid. Ten conductor #14, five which are braided.
9 foot length (3lbs) $10 18 foot $18.00
GRC/VRC MALE CONNECTORS, specify type and equpment used. USED-cut-offs, $3.50 each
AUDIO CONNECTORS: U-77, $4.00 U-229, $5.00

SPEAKER BOX

C-847 SPEAKER CONTROL BOX, originally part of VRC-19 VHF radio set but with 8 ohm 4" speaker, C-847 is usable in a variety of audio communications applications. Has Speaker ON-OFF, Volume, Squelch and xmitter Preset Freq select for VRC-19. Aluminum cast; flanges for wall mount. 5x7.5x2.3, 8 lb unused $19.

MILITARY SPEAKERS

GRC/VRC SPEAKERS have 4" dia cone, large PM magnet & 600:8 ohm transformer in cast-aluminum case w/ cable & audio plug. 5x5x3.3, 5 lbs. USED:
#LS-454 w/ U-229 for PRC-25-77 $18 unused, $26.00
#LS-166 with U-77 plug for R-392, GRC-3--8, etc $16.00 Bracket, $3: unused $25.00
LS-445 4"SPEAKER, ruggedized 8 ohm 2 W perma-magnet type; 300-7000 Hz response. Pull out of LS-166; 3 lbs. USED $7.95

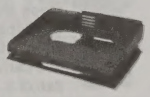
AMPLIFIED SPEAKERS

AM-6747/V AMPLIFIED SPEAKER for monitoring audio of R-442, RT-246/ 524 radios from remote location. Connection for H-189 or H-250 handset to allow remote keying of transmitter. Requires 28 VDC; can be modified for 12 VDC. Similar to AM4979; 5.6x5x3 + 2" top bolt; 6 lbs. UNUSED, $35.00
AM-4979/GRC, similar to AM-6747 except has 6 ft cord with U-229 plug. USED-CHECKED, $30.00
4-PIN POWER CONNECTOR f/ AM-4979-6747, $6.00

+ +

AM-4949/U AMPLIFIER, a microphone amp in vehicle intercom systems using VRC-12 radios. Usable with M-80 mic, H-189/250 handsets, H-161 headsets or similar. Two connections for U-229 plug, Volume, ON-OFF, and power light. Requires 28 VDC; 4.5x4.5x3, 5 lbs sh. UNUSED, $22.50

RADIO MOUNTS



MT-1029/VRC VEHICULAR MOUNT for RT-246 & RT-524/ VRC -12 transceivers 5x12.5x 16 19 lbs. USED, $29.50; GOV'T-RECONDITIONED, $45.
MT-1898/VRC MOUNT for companion R-442 receiver 5x6x12.3, 15 lbs. USED, $25. RECOND, $32.00
MT-298 MOUNT RACK, holds two RT-66-67-68 & 2-PP-109 -112 (VRQ-1-2-3) 40x5x13, 65#. USED, $35.
MT-327 MOUNT holds one RT-66-67-68, one R-108-109-110, one PP-109-112; 32 lbs sh. USED, $28.00
MT-6147/ARC-164 MOUNT, retrofit ARC-164 into ARC-34 mount. Rear rack connector & front plug for ARC-164. 5x13.8x11, 11 lbs. USED, $25.00

BOX KITE

Kite is also used for lifting wire antenna; has 15"Wx12"H distress orange plastic poly-vinyl panels on metal frame. Stands overall 36"H x 15" square; sturdy frame can be recovered with silk or similar light fabric. Includes panel repair kit; 3 lbs sh #SEB-42ABK, unused, $24.00

Antenna Tether Wire

306 FOOT SPOOL of vinyl-covered braided #22-size intended for use with above; usable on the ground as long-wire antenna also. On spool; 3 lbs. #SEB-400X3, unused, $12.95

7 FT Weather Balloon

ML-541A WEATHER BALLOON 7 feet diameter streamline sounding type designed for rapid 1700 ft/ minute ascent to carry meterological equipment to upper atmosphere. 2500 gram free lift; bursting altitude 75000 ft. (Specs based upon hydrogen fill. Use of helium or air alters performance.) Two 4.5"L x 1" dia necks; neoprene, 2/86 date code. 5 lbs sh. UNUSED, $17.95 each; 2 for $32.00

+ +

M315B HYDROGEN GENERATOR, used to provide hydrogen for 4' balloon p/o CRT-3 Gibson Girl rescue radio. Has 1200 grs of calcium hydride crystals in long can which, when immersed in water, produces hydrogen gas. (EXTREME CAUTION must be exercised in the performance of this process because hydrogen gas is dangerously flammable and the liquid calcium by-product is very caustic!) Cans are dented; suitable only for recovery of calcium hydride. 11.6"L x4.3" dia, 4 lbs. UNUSED-dented, $8.95 ea; 2/$15.
INFLATION TUBES for M315B, $3.00 ea

LF-DF Antenna

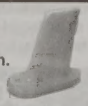
AT-780/ARN-59 DIRECTION FINDER ANTENNA, 190 - 1750 KHz. Has ferrite loop, 26 V 400 Hz motor & Tx selsyn for drive direction. Operates in circuit on 26 V 100 Hz. W/ 14 error compensator screws, 0-360 scale visible under glass dome & schematic. 3.8x6.5x6.5, 8 lbs. USED ~~$39.50~~ $32. #NG-AT780, above no glass,$22.00

AS-313/ARN-6 DF ANTENNA, similar in function to above, but earlier design; 10x11x5, 18 lbs sh. USED, $30.00

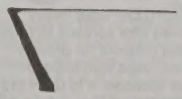
PHANTOM ANTENNA

A-62 PHANTOM ANTENNA, electrical network used in place of antenna to tune BC-604 20-28 MHz xmitter. Adjust INCREASE and MAX-MIN; ANT & GND terminals. 7"Hx4" dia. 4 lbs shipping. USED, $19.95

BLADE ANTENNA



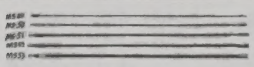
UHF/XPONDER AIRCRAFT BLADE ANTENNA for 800 to 900 MHz range. Type N connection; 5.8x6x2.2, 2 lbs sh. #C1320-25-2, UNUSED, $22.00



AS-2485/ARC-114 BLADE ANTENNA used with 30-76 MHz ARC-114 radio set; BNC connection. 24"H x 42"L, 15 lbs sh. #5985-168-8383, UNUSED, $79.00

VISIT OUR WEBSITE AT FAIRRADIO.COM

MAST SECTIONS



3-FOOT MAST SECTIONS (left), WW-2 & Korean War vintage: painted copper-coated steel. Sequentially screw into the other; 3/16" dia MS-49 top section the smallest. Self-supports to 15 ft; MS-53 can fit into another MS-53; 1 lb sh. May have surface rust; MS-49-50-51-52-53, used $3. ea

BG-56 canvas bag, $14.

SAUCER CERAMIC BASE fits MS-53, 5" dia x 1.5"H 3/4"H terminal; 3 lbs sh. #INS/TRC75, $10.00

+ +

MS-116-117-118 MAST SECTIONS, each 39.3"L. MS-116 is stackable bottom section, MS-117 middle and MS-118 tapered top; fit AB-15, AB-652, MP-65 & UG-558 bases. 1 lb sh ea. USED, $3.50 ea

AB-21-22-23-24-MAST SECTIONS, similar to MS-116-117-118 except 27" length each. AB-21 is bottom section; 1 lb each. USED, $3.25 ea

+ +

GRA-50 ANTENNA MAST KIT f/ GRC-106A radio; includes 3 each MS-116 and 1 ea MS-117 & MS-118 sections, AB-652 base, polyethylene cover sheath & CW-206 roll bag; 18 lbs sh. USED, $35.00

+ +

MS-44 MAST SECTION, 66"L aluminum masts have other potential uses such as tent, flag or volleyball poles; 4 lbs sh. USED, "bent" only, $6

MX-381/GRA-4 GUY ROPE, 40 ft long; 3/16" nylon 800 lbs-test; w/ hooks & insulators, used, $4.00
MX-382 31 ft, $3.00; MX-383, 50 ft, $5.00

MAST BASES

AB-15 MAST BASE for MS-116-117-118 or AB-21-22-23-24 masts; rubber flex spring with 3.3"Lx3" dia ceramic insulator & bottom terminal. Mounts in 2" dia hole. O/a 15"L, 3 lb used $8.00 unused $18.00

MP-65 MAST BASE, similar to AB-15 except 4"L x3" dia insulator; o/a 17"L; 4 lbs sh. USED, $12.00
UG-558 BASE for MS-116-117-118; mounts to SC-D-189023. 16"Hx6"dia; SO-239 conn. USED, $10.

MP-68 MAST BASE, makes ground plane antenna when used with combinations of AB-21--24 or MS-116--118 whip masts installed as three radiating elements plus one vertical. Has center 3" dia ceramic feed-thru insulator with UHF connection and sockets for elements. Clamp on bottom allows installation on top of 1.6" dia masts like AB-35 (RC-292) or MS-44 (AB-155). 13"H x 5"W x 5"D, 5 lbs sh. USED, $29.95

IN-127 ANTENNA BASE holds 3/MS-116 & 1 each MS-117-118 for RT-77/GRC-9; 14.5"L black plastic. 2#. USED $12.
IN-106A BASE for MS-56 mast; clamps to SCR-284 WW-2 radio. Top & bottom termnals; brown plastic, l4"Lx3" dia, 3#. $8

COUNTERPOISE

CP-12-13 COUNTERPOISE heavy rubber-covered wire spreads to form 15 ft dia radial network for ground plane antenna; used with MS-116-117-118 mast sections; 4 lb used $12
GY-12/42 GUY ROPE SET, 3x20' lengths, Used, $7.
M378 ROPE, 80', $6. M379, 10', $1.50

MOUNT BRACKETS

BRACKET for mounting 2" dia antenna bases like AB-15 to vehicles or other flat surfaces. Mount plate 6.3"W x4"H; base hole center extends 3.9" from plate. 4 lbs.
#SM-B114371, UNUSED, $10.00

ANGLE BRACKET for attaching MP-50 or similar mount bracket to corner of vehicle. Bolts for MP-50 & drilled for side mount; 5 lbs sh. #SCC-28591 NEW $9.95

Multi-band Antenna

TRIVEC AVANT AV-455-3 MULTIBAND WHIP ANTENNA, operates over bands 30-88 and 108-174 Mhz @ 50 watts, 225-400 Mhz @ 100 watts; 50 ohm input. VSWR 2.5:1 max; gain -10, -2.5 or 0 dBi. Fiberglass whip & load: 56"L. Base 5.5"dia X 5.5"H + 4.5"H spring; with four mount holes 3.2" o.c. and N-connection. 7 lb #AV-455-3, new, $89.50

LOOP ANTENNAS

AT-339/PRC HOMING ANTENNA for use RT-176/PRC-10 transceiver. Fold-out handheld diamond-shaped loop tunes 47-55.4 MHz; 5-position attenuator, Sense-Normal switch and 48" BNC cable. O/a 24"Hx13.5"Wx3.5"; collapses to 12.3x3.3x3.5, 7 lbs sh. USED, $25.

AT-784/PRC DIRECTION FINDER LOOP ANTENNA for use with PRC-25 -77; covers 30-76 MHz in five bands. Controls FINE TUNE 0-10 MHz in 1 MHz steps and ATTENUATOR 0-40 DB in 10 db steps. In- cludes AT-1082 loop with whip, CG-2840 & -3344 cables in CW-445 canvas bag. Collapsed size 8x6x3.5, 5 lbs. USED, $34.

PRC-Type Antennas

AT-272A RIBBON ANTENNA & AT-272 FLEX-BASE SET for PRC-8-9-10; 2 lbs sh. UNUSED, $15.00
SHORT FLEX BASE only, used, $3.00
RIBBON only, used, $8.00
AT-271 WHIP ANTENNA, 7-section 7.5 ft length for use with PRC-8-9-10-25-77 radios. used $16.00
AB-129 RUBBER BASE f/AT-271 (PRC-8-9-10) $4.
AT-892 RIBBON ANTENNA with FLEX BASE for PRC-25 & -77, USED, $12.. UNUSED, $16.00
FLEX BASE only for AT-892/PRC, USED, $6.00
AB-591 RUBBER BASE f/ AT-271 (PRC-25-77), $7.
RIBBON ANTENNA for PRC-6 radio, USED, $8.00
M-422 ADAPTER for using MS-116/AB-23 masts with PRC & BC-1000 as long antenna, $4.00
AT-5001/PRC WHIP f/ Canadian CPRC-26, used $8.

UHF Dipole Antenna

AT-413/TRC DIPOLE ANTENNA for 225-400 MHz, originally part of large array. T-top elements extendable 3" each end to adjust reception; 20" max T-width. Mount flange moves to adjust height. Type C connection on bottom. O/a 15.5"H, 12 lb UNUSED, $16

30 Foot Mast Kit

AB-1244/GRC MAST KIT, twelve aluminum alloy on steel sections form sturdy, yet lightweight 30 foot 1.7" dia mast. Kit includes five each lower and upper sections, one ea lower and upper adapter sections, gin pole swivel base, four ea 36 and 42 ft guy ropes, four guy stakes, two guy rings plus a 2.5 pound sledge hammer. Part of OE-254/GRC antenna set; 30 lbs sh. NEW, $139.50

MX-6707 Antenna Base

MX-6707/VRC IMPEDANCE MATCHING BASE, uses AS-1730 (not available) and AT-1095 fiberglass mast sections for RT-246-524VRC and vehicular versions of PRC-25-77 radios. MX-6707 has automatic or manually tunable frequency ranges 30-33, 33-37, 37-42, 42-47.5, 47.5-53, 53-56, 56-60, 60-65, 65-70.6, 70.5-76 MHz FM selected by switch on bottom; BNC connection. 4.5"L coil spring on top. P/o AS-1729/VRC antenna set. 14.3"Hx5.5" dia, 15 lbs sh. USED, $45.00
AT-1095 UPPER MAST; 64"L, 4 lbs. USED, $12.50
TIE-DOWN KIT for AS-1729 including tie-down rope and plastic cap for AT-1095, NEW, $8.00
MANUAL for AS-1729, partial repro, $8.50
MAST SPRING only for MX-6707; 4 lbs. USED, $10.
MOUNTINGS for MX-6707 p/o AS-1729, USED: SCD-189023 f/ base, $10. #SCD-446058 corner, $10
EXTENDER for SCD-446058, $6.00

Long Wire Antenna

RC-432/G LONG-WIRE ANTENNA SET, 160' 0.09" dia braided wire on reel; terminations on each end permits other RC-432's to connect and increase length. Used with 400 W HF Tx; 12.5x4.3x2, 5 lb used $15.

AS-1321/PRC-47 LONG WIRE ANTENNA 45 ft vinyl-covered with insulators at 15" and 25"; clips at insulators adjust length. Designed for use with 150 W HF transceiver;4 lbs. UNUSED, $16.00

DIPOLE FIXTURE part of PRC-74 long-wire antenna set. H-shaped has 25" vinyl-covered 2-conductor copper wire. Used with 15 W HF Tx-Rx; 2.5x12x1, 3 lbs sh. #DP-MK-911, UNUSED, $6.

AN-22A LONG-WIRE, 20 ft W-29 wire with snap hooks; p/o SCR-177/188 (BC-191). 2 lbs. $4.95

NAVY CABLE ANTENNA

AS-3379/BRR WIRE-CABLE ANTENNA, probably dragged behind ships or submarines as VLF-LF antenna. Consists of 125 foot long 5/8" dia coaxial cable with 8"L cast aluminum mounting shank and special RF connector which could probably be changed to common N or C connector. Suitable also for under or above ground use. No further info; 23 lbs. UNUSED, $39.

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

HY-GAIN ANTENNA

HY-GAIN MOBILE-COM ANTENNAS, new: 760-SERIES, include 52" whip, 2.5"H spring base, 18" RG-58 coax cable, PL-259 connector & UG-175 reducer; 5 lbs sh. unused, $9.95 ea: #761 (30-33MHz) #767 (33-36 MHz)

- -

KATHREIN K50-54-4 WHIP, 64-470 MHz; cut 4 foot length; 1-hole mount, 15' RG-58 coax. 4 lbs. $15.

+ +

TELESCOPING CHROME ANTENNAS, $2.50 each:
#TCA95-380, 9.5"L to 38"L; 6-32 thread mtg screw
#TCA84-144, 8.4"L to 14.4"L; 5/32" dia base hole
#TCA60-125, 6"L to 12.5"L, 10-24 thrd mtg screw

Impedance Match

CU-459/AR IMPEDANCE MATCH NETWORK, black plastic bullet-shaped designed to mount to aircraft wing. Holds two AT-624 antenna masts (not available); 50 ohm BNC-conn. P/o AN/ ARA-31 24-49 FM MHz homing set; 4.3x3.3. 2# . UNUSED, $7.00

KY-149/AR KEYER, couples homing antenna to radio; requires 28 VDC. Has a 28VDC globe 60 RPM gear motor. 2.3x7.7x4.9; 3 lbs Unused, $14.95

GUY TIE-DOWNS

for securing antenna masts, tents or other items. Each has 4" based triangular steel head with 1.5"L x 3/8" dia driving shaft on base. Head has 28"L steel wire with reinforced loop for attaching guy. Tie-down driven into ground by hammering a pipe (not supplied) slipped over the driving shaft; 3 lbs #4-TD-98, NEW, $4.00 ea; 4 for $12.00

Steel Guy Assembly

50 foot 3/16" steel braid wire with 2 heavy-duty snap hooks on 17" lg steel bracket. Includes locking pulley and tension adjustor; flanges for storing guy. Designed for mil-antenna or other support uses; 8 lbs sh. #SMD-423629, UNUSED, $16.95

Doublet Insulator

IL-4 /GRA-4 INSULATOR, used at center of doublet antenna; has two wing-nut terminals for wire, one N connection and tab for guy hook. Brown bakelite material. 3.5x3x1, 2 lbs. UNUSED, $9.95

BUDWIG

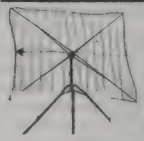
HYE-QUE

BUDWIG HYE-QUE antenna insulators & strain connector for long-wire set-ups; full legal power capacity + weather-tight polymar construction. #HQ-CONN strain assembly with PL-259 connection for lead-in wire drop. NEW, $6.95
#HQ-INS-PR, insulator pair, NEW, $1.75/ pair

- -

VIS-O-GLOW NEON LIGHTNING ARRESTOR, 1.8x4.3x1.3; Brach #1003, $4.00

PHANTOM ANTENNA



AS-2236/GRC ANTENNA SET, light-weight with minimal guying makes this 30 to 76 MHz low-power log-periodic antenna excellent for field day! Rated 65 Watt with VSWR 3:1, 50 ohm impedance. Array mounts on 35 foot mast and unfolds to 10 ft square. Includes antenna, seven 44.5"Lx2.75" dia aluminum mast sections, 44.5"L x 2.75" dia fiberglass section, pivot for horizontal or vertical polarization, folding tripod (10.5 ft square) with foot pads, six stakes, three screw anchors, guys, ropes, and set-up info. Array may have reparable wire "breaks"; 100 lbs shipping. (UPS in 2 pkgs.) USED, $125.00
ABOVE with "NEW" array: AS2236-DM, $155.00

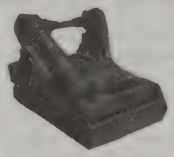
+ +

ARRAY ONLY for AS-2236; mounts to 2.5" dia pipe. Packed size 10"x42"x10"; 20 lbs sh. Dorne & Margolin #DM199-38-7634, NEW, $59.50

PHONE PATCH

VOX-A-PHONE, functions as telephone patch using a voice activated switch to key a transmitter and can be used as "hands off" remote mic on NORMAL mode. In effect permits relaying of telephone conversations via radio and vice versa. Connects to mic and speaker jacks of transceiver; telephone handset is placed in unit's cradle to become acoustically coupled to transceiver. Telephone volume automatically controlled; transmit volume manually. 3 minute timer starts upon patch connection; tones when 20 seconds remain in patch. Some jack re-wiring may be required. 4x11x11, 6 lbs. shipping.
#VOX-PHONE, NEW, $39.95

RL-172 REELER



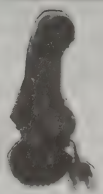
RL-172*/G REELING MACHINE, motor-driven unit mounts on back of small truck to lay-out or recover field phone wire from/onto RL-159 reel. Uses 24 VDC 11 A 1/4 HP 1400 RPM motor; can be manually cranked. Could be modfied to work as light-duty winch. W/ vehicle mount plate; 20x27x22, 130 lbs shipping. USED, ~~$250~~ $175.00

MANUAL for RL-172, partial reproduction, $10.00

MX-7247/7248 MASTS for guiding field wire; MX-7247 mounts on vehicle rear and MX-7248 (48"L) on front. Masts 1.4" dia; 10 lbs. USED, $20/set w/RL-172 purchase.

WD-1A/TT FIELD WIRE by French mfg. on RL-159 steel reel; 5200 ft twin lead vinyl covered steel wire for EE-8, TA-43/312, TA-1, TA-838. Reel 20" dia; 70 lbs. sh UNUSED, $125. 00
1300 foot spool on DR-4 reel, 18 lb sh. unused $35

Sound Power Phones



TA-1/PT TELEPHONE, sound-powered unit requires 2-conductor field phone wire connected to another TA-1 for communication without batteries. Palm-operated generator provides approx 100 V to "buzz"- signal another phone; also visual indicator. Has coil cord with push terminals for wire hook-up and plastic carrying case. 8.5x3.5x3.5, 4 lbs shipping.
USED-CHECKED, $35 ea. 2 for $60.00
UNUSED, $55.00 ea. 2 for $95.00

TA-312 Field Phone

TA-312 FIELD TELEPHONE rugged light-weight unit replaces famous EE-8 field phone and is usable with them. Includes G-42 crank generator, BZ3 clacker call signaler, H-60 handset, and canvas carrying bag w/ strap. Requires 2 D-cell batteries (not supplied.) 12x7x4, 12 lbs. USED-CHECKED, $75.
MANUAL for TA-312, partial reproduction, 8.50

TA-838 FIELD PHONE

TA-838/PT MILITARY FIELD TELEPHONE has push-button numeric tone pad and is designed for 2- or 4-wire communications; replaces old EE-8 and TA-43/312 field phones. Ringing signal audible only in 4-wire hook-up. TA-838 also operates over standard telephone lines. Rugged thermoplastic construction; re-quires four C-cell batteries. 6x9.8x5, 8 lbs. USED-CHECKED, $69.50; Ops MANUAL $10.00

TA-341 PHONE

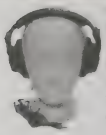
TA-341/TT TELEPHONE SET push-button 4-wire unit for use with tactical switches using four C-cell batteries; usable in conventional point-to-point telephone line (plug may need changed) Range >3.2 km. Signal out 900-3400 Hz digital tone; 90 V 20 Hz signal in. W/case; 4.5x10.5x10.5, 10 lbs. shipping USED, $27.50

TA-954 PHONE

TA-954/TT NON-SECURE DIGITAL VOICE TERMINAL used in Tri-Tac comm-system; 4-wire set xmits and receives diphase-modulated digital voice & loop signaling info at 16K or 32K bits. 125 ohm line impedance 125 ohms; range 4 km using WF-16 field wire (no stock). Requires 24-56 VDC. Tone pad characters 0-9, FO-F-I-P-R-O-C; also Volume L-H Ring - Receive & H-250 handset. Plastic case EMI/ EMC static protected. 7.3x4.5x10, 8lb used-reparable $50

VISIT OUR WEBSITE AT FAIRRADIO.COM

HEADSETS



MATROX/TANDBERG headset intended for language lab use; 200 ohms total. Has padded headband and very comfortable 4" dia covered foam cushions. 7 ft cord with 1/8" dia dual circuit plug; 2 lbs sh. #HS-38086, NEW, $9.95

HS-32 STRAP HEADSET, one 250 ohm R-18 element, w/ PL-55; for TG-5 keyer. USED, $8.

H-264/PRR-9 EAR-PLUG HEADSET, coil cord & 2 mm dia jack; 300 to 2500 Hz response. NEW $4

H-227 HEADSET w/ two 300 ohm elements in 4" x 3.5" vinyl cushions, 42" coil cord, and U-77 plug. Used with GRC-3--8, GRC-106 radios. OD-green & black; 2 lbs. USED, $17.95

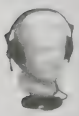
TELEX PH-11 600 OHM single headphone w/ 3.5" x 4" vinyl-covered foam cushions & padder headband. 60"L 2-conductor cord has 3-pin Lemo FGG.1B connector; 2 lbs sh. USED-excellent, $16.95

H-5002 HEADSET f/ Canadian CRPC-26 radios. One phone, head web & plug. $8.

H-63 HEADSET & BOOM MIC, 600 ohm receive & 100 ohm M51 mic elements; with JJ-055 and 3-pin jacks. 3 lbs. UNUSED, $14.95

H-113 600 OHM HEADSET, similar to CW-49507 except O.D. green color with cushions and PL-54 plug on 18" cord; 3 lbs. sh. unused, $7.95

H-16 HEADSET, designed for use in high-noise areas such as tanks, replacing HS-30. 250 ohm elements with matching transformers produce 8000 ohm (series) impedance. Similar to H-65 expect 18" cord PJO-54 plug. unused, $10

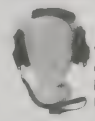


D410SL 600 OHM HEADPHONES, low-cost comfortable language lab-type headset which unfortunately has plastic headband that breaks easily. We will ship 2 for price of 1.
NO RETURNS / NO REFUNDS! 2/$7

VRC-12 HEADSETS

for RT-246/524, R-442, PRC-25-77 radios with U229 plugs; 150 ohm earphone impedance:

+ + + + + +



H-251 HEADSET w/ vinyl cushions, 24" coil cord and U-182 plug; black color. USED, $12. UNUSED, $18.

H-161E HEADSET with 300 ohm boom mic, push -to-talk switch, & CX-8652 Y-coil cord; vinyl cushions. BLACK UNUSED , $59.50

HS-30 HEADSET 250 ohm impedance light-weight WW-2 era set has cord wired to CD-604 500:4000 ohm matching transformer and PL-54 plug; 3 lbs. shipping. USED, $9.95

H-195 HEADSET & BOOM MIC, rubber-covered single 300 phone element, 40 ohm mic & push-to-talk switch. Similar to H-144 except has 10 foot cord with PJO-55 & -68 plugs; 4 lbs sh. UNUSED, $25.

WIRELESS

HANDS-FREE HEADSET for two-way FM radio communications in high noise environments. Uses throat mic and ear cushions with EPA noise-reduction rating of 23 DB. Operates on 49.86 Mhz; controls for Volume & Squelch, Velcro adjustable head web and mic straps, 6" antenna and fiberglass case. Requires two 9 V batteries; 6 lbs sh. #7800H, NEW, ~~$99.50~~ $74.50

ULTRA-LIGHT HS

STARSET OPERATOR'S HEADSET, ultra-light set fits over the ear with flexible voice tube. Has push-to-talk switch on 4 ft coil cord w/ dual 1/4" dia plug. Includes spare ear tips, glasses clip & pouch; black color. #HS0110-2E, NEW, $34.50

#ACS MICROSET HEADSET, similar to above but light beige color. #ACS-SM-HS, $34.95

CTE49214 headphones f/ WW-2 MAB radio; no scull cap, $7.50

MICROPHONES

GENERAL ELECTRIC MIC from highway patrol vehicles; PTT switch has "C" & "S" positions. Also has amplifier circuit & coil cord w/ DB-9 connector: 2 lbs. sh. USED. #GE-CS-MIC, ~~$9.95~~ $8.

GM DELCO MIC for mobile communications; black w/ PTT switch, coil cord & 5-pin male connector. #GM-DEL-MIC, new $7.

+ + + + + + + + + + + + + + + +

T-45 MIC Carbon type 100 ohm 50 db below 1 mv, flat response with PL-291 two contact male plug, 11" cord. UNUSED, $3.00

T-30* THROAT MIC w/ elastic strap; no clip. USED-chkd., $15

- - - - - - - - - - - - - - - - -

CW-51071 LIP MIC for CW49507 or H-62 headset; 100 ohm, $4.

- - - - - - - - - - - - - - - - -

M-29B MIC with U-77 plug; for T-195 T-368, etc. USED $12.00
M-52 MIC with 5 foot cord & PL-68 plug. UNUSED, $8.00
M-80C MIC, unused, $14

+ + + + + + + + + + + + + + + +

Low-impedance omni-directional for public address use; 150 to 4000 Hz response. Swivel mount; 5/8" dia 27 threads/ inch. Cannon XL-3-11SC connector; 2 lbs sh. USED:
#M-2A, $7.95
#M-43-EV, Electro-Voice, $8.95

#M-43-UL, University Loud-speaker mfg. $12

CX-3094 MIC CORD with mating connector for above; 3106-14S-7P 3-pin male on other end. 25 ft long, 4 lbs. USED, $7.50

MT-596 TRIPOD MIC STAND for above. Used, $10 ea; 2 for $16

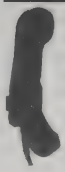
+ + + + + + + + + + + + + + + +

WW-2 CHEST SETS UNUSED
T-26A $7. T-46/TD3, $7.
TS-11 $20. H-12, $7.
H-28 w/ PTT-switch & mic coil cord w/PL-68 plug; 4#. $12.00
M-236 SOUND POWER CHEST MIC only, Navy-type PTT; 18 ft cable, 6 lbs. $15.00

+ + + + + + + + + + + + + + + +

JT-85 HAND MIC by Joyce Electronics has "look" of WW-2 round black RS-38 mic with PTT switch on top. Coil cord has M642/5-1 (=PL-68) plug. USED, $16.00

HANDSETS



H-250 HANDSET w/ push-to-talk button, coil cord & U-229 plug. USED CHECKED $18.00 UNUSED, $25.00

H-33/PT HANDSET for GRC-3-8, PRC-10; w/U77 plug. $17.50

H-350 HANDSET, same as H-250 except additional contact on connector. USED, $24.00

+ + + + + + + + + + + + + + + +

TS-9* HANDSET, p/o EE-8 field phone; 2 lbs. USED, $14.95

H-90 HANDSET, like TS-9 but w/ U-77 plug; $12.00

+ + + + + + + + + + + + + + + +

BLACK STANDARD HANDSET, NEWER STYLE w/ cord, $3.00

BEIGE newer style ITT (not computer beige), UNUSED, $3.25

JEN-20 HANDSET w/ AMPLIFIED receiver for hearing impaired; black or beige. NEW, $15.

WESTERN ELECTRIC #D14842 (or =) HANDSET with 1903 patent date; black painted brass handset with PTT-switch appears to be same as TS-7 handset used with pre-World War-2 EE-5 field phone. 3-wire cloth cord may have "age-crackled" insulation but handsets "work"; 4 lb used, $45

ACCESSORIES

For HEADSET CORDS see page 13.

- - - - - - - - - - - - - - - - - - - -

GSA-6 CHEST GROUP SA-142 PPT-switch & CX-1077 cable w/ U-77 plug connect H-63 headset to GRC radios. USED, $6.00

+ + + + + + + + + + + + + + + +

PHONE PLUGS, used cutoffs:
PL-354 red, $4.00
PL-55 on 30" cord, $1.00
DOUBLE PLUGS, unused: #D178542 (WE289) for headsets, etc. $3.00
#2PPC f/ switchboards, $3.00

JK-33 PHONE JACK to fit PL-68 plug. USED, 2 for $1.00
JK-34 PHONE JACK to fit PL-55 plug USED, 2 for $1.00

+ + + + + + + + + + + + + + + +

MIC ELEMENTS, checked:
F-1 for TS-9, $4.00
M-51 for H-63, M-29, $4.00
H-33 or H-189, $5.00
TA-117 for H60 (TA312), $5.00
WE #D173011 sound-power mic for TS-10; brass. $10.00

- - - - - - - - - - - - - - - - - - - -

RECEIVE ELEMENTS, checked:
H-33 or H-189 receive, $5 ea
TS-9 receive element, CALL
TA-235 for H-60 (TA312), $5.00

+ + + + + + + + + + + + + + + +

MX-41 2.8" Rubber cushions f/ HS-23/33 headets, $3.00 pr
M-301 4" Chamois cushions for HS-23 or HS-33, $6.00 pr

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

HEADSET CORDS

CD-307 EXTENSION CORD for headsets with PL-54 plugs like CW49507, H-16, H-113, HS-23/-33; 65" cord has JK-26 jack & PL-55 plug; I#. unused, $3.50

CD-604 CORD with impedance matching transformer 500 ohm to 4000 ohm; 6" cord & PL-54 plug. P/o HS-30 headset. USED, $1.50

+ +

CX-2481 CORD with PL-55 one end, PL-68 on other; 12 feet long 2 lbs sh. UNUSED, $7.95

MIC COIL CORD, 1-shielded, 2- wire not; stretches 30"-42". #SH-CC3042, NEW, $2.50

+ +

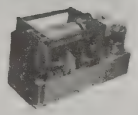
"EXTRA-STRETCH" PHONE COIL CORDS:

#T425-MOD, 4 ft to 25 ft extension w/ modular jacks; tan. NEW, $3.
B212-LUG, 2 - 12 ft w/terminal lugs; 4-cond, black. NEW $2.50
#G2-SWB-72, grey cloth-covered cord with double plug on each end: 72"L, 2 lbs. $6.50
#B1-SWB-72, black cloth cord w/ single AE-309 0.38" dia plug each end; 72" long. $3.95

"Y" CORDS

#3E7385.60, 48" molded cord with 15" legs; 2-pin leads each end. unused $3.00
#CD-265 27" cord w/ moulded PL-68's unused $2.25
#CD-620F, molded 16"L legs & 6" cord with 2 lugs each end; for HS-30 headset. $2.00

Power Amp for 618S-1



POWER AMPLIFIER from 618S-1 2-25 MHz 100 watt transceiver. Has 12.3 uH roller inductor; coil 3 3/4x1 3/4: dia with 27 turns #14 silver-tinned wire rotated by 115 VAC 400 Hz motor. Also ten Centralab 850 HV capacitors 10 pf, 50 pf, 7/100 pf & 1000 pf. silver contacts on ceramic switch and 3/ 6159 tubes.11x5x6, 10lbs #3496/618S-1, less tubes, $33. With tubes $42.50 MATING CONNECTORS, 2 required, $3 ea SCHEMATIC for #3496/618S, $3

ART-13 Crystal Calibrator

ART-13 CRYSTAL CALIBRATOR, provides 50 KHz fundamental using 200 KHz crystal. Also 1000 Hz tone for MCW. Tubes 2/12SL7, 12SA7; 6x5x3, 4 lbs #XCAL-ART-13, used, $20.00

DISCRIMINATOR

PHASE & LOAD DISCRIMINATOR determines if load is <, >, or = to 52 ohms; also if R, C, or L. 3rd output:ant-current; withschematic. 2x3 x3, 2 lbs. #T201/180L, $9.00

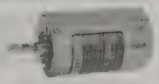
RF CHASSIS

RF CHASSIS f/ Bendix RA-18C 108-136 Mhz receiver; 7-gang capacitor tunes ant-coil RF grid. RF plate, mixer grid, 1st osc-quadrupler, 1st osc-amp, & cathode follower input. Tubes 2/5654, 5670, 5725: requires 6.3-12.6-108-250 VDC. 3.5x3.5x10.5, 5 lbs.
With schematic. #RF100-RA-18, $10.00

VFO FOR T-195

VFO-MASTER OSCILLATOR from T-195 transmitter; generates frequency of 1.5 to 3 MHz. Uses two 5749/6BA6W tubes for oscillator and buffer-amp. Shaft 0.5"L x 3/16" dia; o/a 2.5x3.3x7, 5 lbs sh. #VFO/T195, used, $20.

455 KHZ BFO

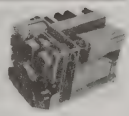


PERMEABILITY-TUNED 455 KHz BFO COIL from R-392 receiver. Originally used with 5-55 pf variable capacitor but fixed cap may be substituted. Oscillation without parallel capacitor: 452-480 KHz. Good basis for BFO for any receiver with 450-465 KHz IF; w/ schematic. 3.3"Lx 1.5" dia, 1 lb. #BFO-T602/R392, USED, $14.95

CRYSTAL OSCILLATOR

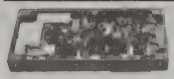
TRANSISTORIZED CRYSTAL OSCILLATOR and BUFFER, 56 to 99 Mhz with 75 *C temperature controlled oven. Requires 5th overtone HC-6 (20 pf) crystal (not supplied). Has external oscillator input plus tuning meter & oven output. Requires 12-18 VDC regulated for oscillator; 22-39 VDC 1 amp for heater. W/BNC and SMA RF connections; DEC-9P plug for power. Part of GRT-21/22 xmitters. 6.5x2x3.3, 3 lb #OSC-8004290G1, used with schematic $9.95

Collins HF Oscillator



0-215/ARC-38 STABILIZED MASTER OSCILLATOR ASSEMBLY from RT-3II/ARC-38, an aircraft HF transceiver. Utilizes series-fed electron-coupled oscillator, a more stable variation of Hartley-type. Step-adjusted inductor covers 14000 positions to tune osc- frequency 1.75 - 3.5 MHz in 125 Hz steps. Has Collins SMO #70E-22, discriminator #147A-1, 27.5 VDC gear drive and tubes 3/6AK5, 6BA6, 2/6BE6. 6x6.5x10, 15 lbs sh. USED, w/ schematic, $35.00

RF EXCITER



RF EXCITER MODULE from1980's HF transceiver; mixes 500 Khz USB signal with synthesized frequency to produce and amplify modulated RF. Synthesizer (not available) supplied 74.5/75.5 (LSB/USB) and 77-105 Mhz depending on desired output frequency; RF output is low level. Requires +5, +12, -12, +28 VDC; with pinout. 1x7.8 x3.3, 2 lbs. #RF-EXC-1512, unused, AS-IS, $25.00

Receiver Module

TRANSISTORIZED GUARD RECEIVER f/ modified RT-178 /ARC-27; one channel in 238-248 Mhz range. IF's 25.1/3.45 MHz; has detector, noise limiter, AVC, 4/2N1745 transistors, and 25.I MHz filter. 8x4 1/2x4, 6 lbs sh. #5821-953-9695, used, $18.95

- -

RX-70 MHz-TX /MAIN RECEIVER MODULE for RT-1288A/ARC-164 (V), 1990 date codes; 2 lbs sh. #5821-013-021-1368, NEW, ~~$125.00~~ $99.50

RF-550 MODULES

Harris RF-550 HF receiver & RF-131 exciter modules ; 4.1x2.1 x5.9, 2 lbs sh. USED, not tested:
#A2A8/RF550 High Band Phase Lock Loop. 10 Mhz, 1 Mhz, and 100 Khz BCD control input controls the output of the VCO over the range 158.35-188.25 in 100 KHz steps. Requires 198.3 MHz @ 39mV rms, 100 KHz at 3 V p-p. $33.

#A2A14/RF550 Low Band Phase Lock Loop, complements A2A8; responds to 12 wire 100 Hz, 1 KHz and 10 KHz BCD info to provide output from 3.25 to 3.3499 MHz in 100 hz steps. Requires 1 Khz and 36.5 Mhz @ -10 dbm. $32.95
SCHEMATIC packets, $7.50 ea w/module purchase.

ARC-5 PARTS

SCR-274/ARC-5 COMMAND SET replacement parts:
#7277 6-9.1 MC 1st IF, $5.00
#7279 " " 3rd IF, $5.00
#5856 " " oscillator $5.00
#6234 " " RF sect. $9.00
#7249 5.3-7 MC BC-458/T-21 xmitter PA coil, used $6
#6032 6-9.1 MC BC-459/T-22 xmitter oscillator coil $4

+ +

DUST & TUBE COVERS for BC-456/MD-7 modulator, used-excellent. #7142/7144-A, aluminum $15.

URG-2 MODULES

GRR-18/GRT-17 RECEIVER-EXCITER MODULES & RACKS from "complete" group pictured. Black box modules fit into rack slot. "USED-NOT TESTED".
TS-2923/GRR-18 (599H3) RECEIVER TEST, $39.50

CV-2649/GRT-17 (888B-1) AMPLIFIER CONVERTER, provides output signals for exciter from 250 KHz IF input; less cover, 8 lbs sh. $99.50

CV-2653/GRR-18 (889A-2) AUDIO FREQUENCY DETECTOR for receiver, 7 lbs sh, $125.00
CH-645/GRR-18 RECEIVER RACK only; no module clips. 10.4x18.8x22.6, 18 lbs sh. $65.00

INFRARED DEVICE

INFRARED RECEIVER/DEMODULATOR as used in televisions and VCRs for remote control; has infrared detector and an IC for signal processing. Requires 5 VDC; 0.7x0.6x0.6, 1 lb sh. #IFRD-TV, NEW, $1.95 ea. 7 for $10.

20 HZ RINGER

20 HZ INVERTER MODULE used in telephone equipment; produces 20 Hz 65 V 50 ma ringing signal from 110 VDC 65 ma input. w/ info. 3.4x 2x3, 2 lbs. #E10/TA182, $12.00

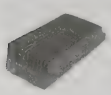
UHF TUNER

450-900 MHz VARACTER TUNER, use for TV or modify for scanners. Approx 47 MHz IF out; 300 ohm ANT input, 50 ohm OSC out. Requires +15V (B+), 3-10 V (AGC), 0-30 V (tune). 3.5x3.5x1, 1 lb sh. w/ schematic. GE#EP8566X, unused, $5.95

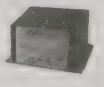
VISIT OUR WEBSITE AT FAIRRADIO.COM

850-895 MHz Modules

Modules from digital air to ground phone system. Receive frequency was approx 850 MHz and transmit 895 MHz. Removed from equipment-Excellent:



MILCOM 850-900 MHz POWER AMP, no specific data, but estimated 10 W power out using MRF-897 transistor; has heat-sink top. SMA input-output connection; 3x8.5x2, 4 lbs. #MIL-850-10PA, $39.50

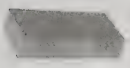


CELWAVE (or =) 6-SECTION DUPLEXER for 850 MHz receive and 895 MHz transmit frequencies; SMA connections. 4x4.5 x2.4, 2 lbs sh. #CEL-85095-DP, $19.95

DITCOM MICROWAVE DF-2575 CIRCULATOR for 850-895 Mhz; 500 watts CW max, 3 KW peak. Isolation 20 DB min; insertion loss 0.3 db max. VSWR 1.25:1. Two SMA, one N conn; 1.4x1.7x1.3, 1 lb. $19.95

FERROCOM 9K15-S CIRCULATOR, 840-900 MHz; T-shape SMA-N-SMA conn. No info; 1.9x1.9x1. $14.95

4-CAVITY FILTER for 850 MHz; machined aluminum with 2- SMA connections. 2x5.7x1.4, 2 lbs. #4C-850M, $19.95



MILCOM 2-WAY COMBINER for 800 MHz, 2- SMA female & 1-male connections; 1.8x2.8x2, 2 lbs. #240-089, $19.95

800-900 MHz Modules

MODULES & COMPONENTS from airline phone system operating in 800-900 MHz range:

#IFPC COMMON module has two receiver input and two transmitter output sections. Has parts two each Motorola filter 0850E05140 and 0895E05141, M/A-COM 7N526-6016 circulator in one section. Also 47.5 MHz local oscillator, 5 MHz piezo osc and IC's N80C169KB 16 MHz CPU, 27C256-20 32Kx8 EPROM, 3/84256-10L 256Kx4 RAM & related IC's. Requires +28, +12, -12 V; 11x6.5x3.2, 7 lbs. $20.00

#IFPC-T/R MODULE, stripline receiver RF/IF and low power xmitter boards plus oscillator/AGC board each in separate cavities. Components S80C652-1 MPU, 2/84256A-10 RAM, 27C256JL E-PROM, two Sony 20102A D/A CONV, etc. Requires +12, -12 +5 VDC; 11x6.5x1.5, 5 lbs sh. $15.00

#AFF-PS MODULE, powered both above modules; has switching supplies Calex #24S12 (24 VDC in to 12 VDC 1.7 A out) and #12S5 (12 VDC in to 5 V 400 MA out); two RO Assoc 220-400 VDC input uVERTERs with one 28 VDC 10 A out and other 12 VDC 10 A out; and Vicor DC-DC Converter 250 VDC 35 W in to 5 VDC 25 W out. Also flat heat-sinks, capacitors, etc. 11x6.5x3.3, 7 lbs sh. $10.00

900-1100 MHz Cavity

TRANSMITTER TRIPLER / PRESELECTOR CAVITY MODULE from TACAN system in 900-1100 MHz range. Consists of preselector and four silver-plated cavities originally gang-tuned using ball-chain drive (not available) 10x7.5x2, 7 lbs sh. #4-CAV-93, used, $49.50

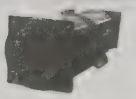
225MHz DETECTOR

225-400 MHz DIRECTIONAL POWER DETECTOR used in AM-6155 UHF power amplifier. Rated 65 watts forward; 15 watts reversed. Forward/ reversed DC output proportional to output/mismatch; sub-mini connectors provided. "N" RF connections; 4.5x1x1.3, 1#. Coaxial Dynamics #3023, USED, $18.00

Bird Power Monitor

BIRD 4162D RF POWER MONITOR, rated 220-405 MHz 40 W. Measures incident and reflected power; VSWR 1.1:1 max. Usable over 145-500 MHz. Output 100 ua @ 5K ohm. RF connectors; output C, input BNC. DB-9 for DC outputs. 1.8x4x1, 1 lb sh. NEW, ~~$24.95~~ $19.95

WAVEMETERS



p/o AM-1956/ GRC-50 Rx/Tx 1350.5-1849.5 MHz FM oscillators; cal book for tuning CHN #, MAIN TUNE, OUT FREQ, & REC OSC. BNC connections; 3x3x9, 5 lbs sh. USED, $17.95

1700-2600 MHz WAVEMETER, 20-turn vernier tunes in increments of 1. BNC connections; 1N21 diode output. On 3.5"W bracket; o/a 4.8"Hx2", 2 lbs sh. #SMD-302123, used, $24.95

9 GHz SOURCE

VARIAN VSX-9031H MICROWAVE SOURCE frequency 8.85-9.45 GHz varies with control voltage approx 5-45 V via subminax conn.; output 12.5-16.0 DB max. Heater =28 VDC; oscillator =15 VDC. SMA RF connection. 2.5x2.8x1.3,1 lb. new, $79

QRP Circuit Boards

SHORT-WAVE CW EXCITER/ TRANSMITTER by Ryan Com-munications; tiny 2"x4" high quality circuit boards cover active segments of ham radio low band frequencies @ 1.25 W CCS from 12 VDC power input into 50 ohms resistive. Output increases from 0.75 W-2.5 W as input varied from 10-16 VDC. RF Harmonics > 30 DB. Has 2N3019 power amp trransistor and double Pi-net. Provision for HC-6 - 33 xtal; norm-open contact-closure required for output. #SW-1: 1.8-2.0 MHz, $32. BAND 3.5-4 .0 MHz, $22. BAND 7-7.5 MHz, $20.

- -

#SW-1A SERIES, parallel dual driver-dual power amp for enhanced performance, $26.00 each: BAND 14.0-14.35 MHz; BAND 18.068-18.168MHz; BAND 21.0-21.45 MHz; BAND 28-29.7 MHz

SWR Indicator Circuit

STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 1.8" square 0-10 scale (FS=2 ma) meter with filters, rectifiers & modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. Circuit is balanced when antenna is tuned to 52 ohms resistive resulting in "0" reading on meter. Bridge: 2.5x 2.3x1, 2 lbs sh. #M701/CU-991, USED, w/info, $8.95

2N6678 Circuit Board

DELTA INVERTER CIRCUIT BOARD, has twenty 2N6678 NPN transistors rated 15 amps 400 VDC, 175 W dissipation. Hook-up & specs of inverter unknown. 12.3x10.7x2,6, 6 lbs sh. #500-9050, UNUSED, $17.95

Hy-Gain CB Board

HY-GAIN CB TRANSCEIVER BOARD, similar to Hy-Gain board converted in 73 Magazine to 10 meters (2/84) and 6M (2/85). Board has xtals, IF transformers, RF coils; no schematic. On incomplete chassis; board 6.4x6, 4 lbs sh. #PTBM036AOX, "AS-IS", $6.50

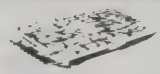
Time-Temp Sign PCB

SCR/TRIAC CONTROLLER BOARD with seven 400 V 4 A SCR's and 200 V 6 A triacs. SCR's trigger the triac gates with 50 m-sec 16 V pulse that holds all triggered triacs "on" until 24 VDC to SCR's is reset. Originally p/o time-temp sign. 6x6x0.8, 1 lb. #ASI-CMC27 w/info, $3.00

INDUCTOR PC BOARD has 3 200 uH and 2 1200 uH inductors 3/4"H x 1-3/8" dia; also 3/4000 mf 20 V, 3/3000 mf 25 V axial caps, xistors etc. 3 lbs. #54-014535, $2.00

IMPRINTER LOGIC BOARD with three each P&B JRA-1012 SPST 12 VDC reed relays, regulators, & 0.02 mf 1 KV discs; also 2/C4003. 2 lbs sh. $3.00

1200 BAUD MODEM



300/1200 BAUD MODEM dual deck Auto Answer/ Originate; Bell 212 compatible. RS232C interface, 9x LED indicators for Receive, Transmit, Carrier, Cleat-to-Send, Data Set Ready, Out-of-Service, etc. Four toggle switches for Disable Auto Answer, Receive/ Send, etc. Requires +/- 20 to 25 VDC, +5 VDC. 11x5.5 x1.2, 3 lbs. Multi-tech #MT212A, UNUSED, w/pinout $12.00

DISPLAY CARDS

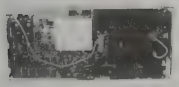
12-DIGIT FLUORESCENT DISPLAY, 3/8" digits 0 thru 9,-,-,/, and decimal point. Tubes 2"H plug IC's, transistors, etc. 9x8.5x2.5, 4 lbs sh. #POS-2, $3.50

#QP-3304, similar to above but 5/16"H characters, 1-5/16"H DG-10A tubes; 21 xistors, IC's etc. 5.3x3.4; 3 lbs sh. $3.00

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

Commodore Motherboard

#VIC-01981 #VIC-01983



MOTHERBOARDS for COMMODORE VIC-20, an early 1980's 5K memory color computer. All components intact; UNUSED but AS-IS, 3lbs sh. Two versions:
#VIC-01981, eleven 2114 RAM, 9 VAC req, ~~$10~~ $7.50
#VIC-01983 with two M58725 2Kx8 RAM or =; requires 9 VAC and 5 VDC, ~~$13.50~~ $6.50

+ +

COMMODORE C-16 KEYBOARD, originally p/o C-16 computer--a transition computer between the VIC and C64. By switching a few wires, it will work with VIC on most keys. Change info included. 5x 15x1.5; 3 lbs sh. #KB-C16, $3.00; if purchased w/VIC board, $1.50

Keyboard Surprise

We have "odd" keyboards similar to the one pictured leftover from the early-1980's when the IBM PC standard "killed" the market for them. We offer a mixed assortment of five keyboards of our choice with IC's etc for $10.00. Size & lay-out vary; 15 lbs sh. #5-KBD-90, $10.00

Lexicon Laptop

WORD PROCESSOR (circa 1982) uses Z80 CPU; 14 KB word memory for 20 seperate files plus 300 baud modem. Has "chick-let"style QWERTY keyboard & single-line LCD display. Requires 115 V 60 Hz or DC input. W/modem cable & battery charger. Line display OK, but function LCD illegible. 5.3x10.5x1.8, 4 lbs. #LEX-LT-WP, "AS-IS", $12. Operator Book $5.00 with purchase.

C-2298 CONTROL

C-2298/VRC INTERCOMMUNICATION CONTROL used in RT-524/VRC installations with AM-1780 amp; monitors three radios A-B-C. Volume control and two connections for U-229, 5.8x4.5x3.3, 4 lbs sh. USED, $20.

+ +

C-433 REMOTE CONTROL p/o GRA-6 for GRC-3--8 remote & telephone patch; USED, $20.00
C-434 LOCAL CONTROL p/o GRA-6, used, $24.00
C-435 CONTROL for duplex GRC-3--8; used, $15.

MN-28 CONTROL

MN-28* REMOTE TUNING CONTROLS for WW-2 MN-26 radio compass. 5.3x7.3x2, 3 lbs sh:

#MN-28C-X, above "used", no crank or back plate, $10.00

#MN-28LB, 200-410, 550-1200, 2900-6000 KC. USED, $14.95

16-pin Connector, used, $6.00

CONTROL BOXES

C-87/ART-13 CONTROL BOX for ART-13 transmitter. Has 11-position CHANNEL selector, OFF-VOICE-CW-MCW select, PTT button and IC jack. 3.5x6.3 x3.3, 3 lbs. UNUSED, $12.50

+ +

SB-327/ARC CHANNEL SELECTOR 24-51.9 MHz FM in 100 KHz steps on 3-digit counter; used with RT-294/ARC-44 Tx-Rx. 3x5.8 x4.5, 3 lbs sh. used, $15

SB-329/ARC Signal Distribution Box, UNUSED $16

SA-474/AR SWITCH BOX, $7.00

+ +

RM-52 REMOTE CONTROL for radio and intercom set. Has transformer, mic & phone jacks. Source for "Macy's Phone Patch" project. 7.3x3.5x5, 5 lbs. USED, $4.

BC-1361 SWITCH BOX, p/o RC-298 interphone kit for SCR-528/628 radios in Sherman tanks. With Call light, Field-phone terminals, On-Off & Signal switches; 6.8x5.4x2, 4 lbs sh. UNUSED, $8.00

CW-62017 JUNCTION BOX for various interconnect cables of early WW-2 RU-19 aircraft receiver set; black crinkle finish. 4x7.5 x5.5, 5 lbs UNUSED, $24

BC-631 JACK BOX remote audio control for SCR-522; 4x2.5 x2.4, 2#. NEW $5.

Carrier Monitor

used for remote check of xmitter operation. Good parts including 600 VDC 35 ma transformer; tubes 0A2, 6AL5, 6J6, 6X4; 600:600 ohm AF xformer, DPDT & SPST toggle switches two 49 pf trimmer caps, etc. LESS 3 pf 15 KV vacuum capacitors 6x8.5x6.3, 12 lbs sh.
#CAR-MON-87, unused, $5.95
#CAR-MON/VC, above with vacuum capacitors, $15

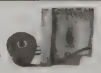
IE-36 TEST SET

IE-36 TEST SET for SCR-522 WW-2 radio; includes BC-1303 control box, A-29 phantom antenna, 8.5x 4.3x10 CH-234 wood case. Test cords not available; 8 lbs. USED-excellent, $24. BC-1303 CONTROL only, $12.

FT-384 Test Adapter

FT-384 TEST ADAPTER, plugs into BC-603/683 (SCR-508/608) receivers & allows voltmeters to align IF-RF amps & Oscillator. Switch DISC-ALIGN-CATH-BATT & 72" battery cables. Connector also fits BC604/ 684 xmitter. 2x5x3.1, 4 lbs sh. UNUSED, $18.95

Alignment Adapter



M-399 ALIGNMENT ADAPTER for BC-659 transceiver; allows changing of crystals and alignment of the set without the use of an external meter. Mounts inside the BC-659. 2 lbs sh. $5.00
M-394 Adapter f/ BC-620, $5.00

MANUALS

TERMS: All manuals include maintenance info & schematic unless noted otherwise:
O.I.= Operating info only. N.S.= no schematic
Repro= partial reproduction w/ theory, maintenance info & schematic.

- -

AM-65 7.50
AM-598 7.50
AN/APR-4 repro 12.00
AN/ARC-5 Bench Test & Alignment Repro 8.50
AN/ARC-38-38A repro 22.
AN/ARC-60 (R-19/CV-431) repro 10.00
AN/ARC-73 repro 20.00
AN/ARN-30 repro 10.00
AN/ARR-52 repro 17.00
AN/ART-13 repro 12.00
AN/CRT-3 repro 10.00
AN/GRC-3--8 repro 15.00
AN/GRC-9 12.00
AN/GRC-10 12.00
AN/GRC-106A repro 40.00
AN/GRC-109 repro 12.00
AN/GRC-165 repro 25.00
AN/GRR-5 10.00
AN/PRC-6 10.00
AN/PRC-8-9-10 repro 10.
AN/PRC-9A-10A repro 10.
AN/PRC-25 repro 20.00
AN/PRC-47 repro 25.00
AN/PRC-74B repro 25.00
AN/PRC-77 repro 20.00
AN/PRR-9/PRT-4 repro 15.
AN/TRC-1 (T-14, R-19, & AM-8) repro 20.00
AN/TRC-24 20.00
AN/TRC-75 repro 100.00
AN/TRC-77 repro 15.00
AN/UPM-84 repro 15.00
UPM-84A O.I. repro 8.50
AN/URC-68 repro 15.00
AN/URM-25D repro 10.00
AN/URM-25F repro 10.00
AN/URM-26B repro 12.00
AN/URM-127 repro 10.00
AN/USM-117 repro 15.00
AN/USM-140 repro 17.00
AN/USM-281A repro 25.00
AN/USM-281C (Tektronix 7603N11S) repro 25.00
AN/USM-425V repro 25.
AN/VRC-3 repro 10.00
AN/VRC-7 repro 12.00
AN/VRC-8-9-10 repro 12.
AN/VRC-13--15 10.
ARC TYPE 12 (R-10-11-15-19, T-11-13) 15.00
BC-191 or BC-375 10.00
BC-AS-229 repro 8.50
BC-221 repro 12.00
BC-312-342 repro 12.00
BC-348 J-N-Q or K-L-R or M-0-P repro 12.00
BC-603/604 repro 12.00
BC-610/939 repro 15.00
BC-611/SCR536 repro 12.
BC-620 repro 12.00
BC-624/625 repro 15.00
BC-652/653 (SCR-506) 12.
BC-659 (SCR-609/610) 12.
BC-669 repro 12.00
BC-683/684 repro 12.00
BC-779/1004 repro 12.00
BC-1335 repro 10.00
CU-872 repro 8.50
CU-1658 (COL 490T1) 20.
CV-157 repro 20.00
CV-591 (MSR-4) repro 10.
CV-1758/UR repro 10.00
CV-1982/TSC26 repro 10.
EE-8 repro 8.50
I-142/PTM-6 10.00
I-177 repro 10.00
ME-6D repro 8.50
ME-26 repro 8.50
ME-30 repro 8.50
ME-71 repro 8.50
MN-26 10.00
OS-8 A or C repro 10.00
PP-109-112 7.50
PP-281-282-484 repro 7.
PP-2352 repro 10.00
PP-4763 repro 10.00
R-105/ARR-15 repro 15.
R-108-109-110 10.00
R-140 (HRO-5) repro 10.
R-220/URR-29 repro 20.
R-274 (SX-73) repro 15.
R-274A-C repro 17.00
R-388 (51J3) repro 12.00
R-389 repro 17.00
R-390 repro 15.00
R-390A repro 15.00
R-391/URR repro 17.00
R-392 repro 15.00
R-484/APR-14 repro 15.
R-648/ARR-41 repro 15.
R-744/PR repro 12.00
R-901/GR repro 12.00
R-1051B repro 45.00
R2174 (Racal) repro 45.
R-1490/GRR-17 repro 40.
R-1518/URR-71 repro 22.
RT-66-67-68 10.00
RT-70 10.00
RU-18/19 repro 10.00
SP-600-JX repro 10.00
SX-28 repro 10.00
T-195/GRC-19 20.00
T-278-416 7.50
T-368 O.I. repro 8.50
T-368/TN-339 repro 15.
TCS-12 repro 15.00
TS-352/ME-9 repro 8.50
TS-382 repro 10.00
TS-403/URM-61 repro 12.
TS-510/USM-44 repro 12.
TV-2, - 7, or 10A: $10. ea
ZM-11 repro 10.00
ZM-30/URM-90 repro 10.

+ + + + + + + + + + + +

COLLINS 30L1, KWM-2A, 516F2, etc mil-repro, $30

- - - - - - - - - - - -

TEKTRONIX repros:
$8.50 ea: G, H, W,
$15. ea: 1A1, 1A2, 1A5
$17. ea: 1A4, 535A, 545A 545B 547 585A 453 $25. 475 $30.

MANY other manuals available. Visit our website for a much more complete listing or tell us your needs.

ALIGNMENT TOOLS for BC-620/659:
TL-150 or TL-207, $5.00

MC124 20" TUNE SPLINE, $10.00
MC-136, RIGHT ANGLE, $4.50

VISIT OUR WEBSITE AT FAIRRADIO.COM

TUBES & AUDIO

75 YEARS OF WESTERN ELECTRIC TUBE MANUFACTURING by Bernard Magers; historical look at 750+ WE tubes + pics; 133 pgs. $16.95

WESTERN ELECTRIC TUBE CATALOG, 30 + popular types' data & curves plus obsolete list. 247 pgs, 3 lbs. $15.95

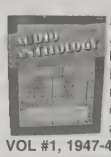
PRINCIPLES OF ELECTRON TUBES by H. Reich; reprint of 1941 text book on tube RF & AF, 397 pp., ~~$34.95~~ $27.95

BEGINNER'S GUIDE TO TUBE AUDIO DESIGN, by B. Rozenblit; basic tube amp component theory and practical design + classic circuits.131 pp. $22.95

MULLARD TUBE CIRCUITS FOR AUDIO AMPLIFIERS Reprint of audio amp circuits by tube mfg; 136 pages. 3 lbs $15.95

VALVES FOR AUDIO FREQUENCY AMPLIFIERS by E. Rodenhuis; info & curves for European tubes, 144 pp. $16.

AN APPROACH TO AUDIO FREQUENCY AMPLIFIER DESIGN, (1957) by GE (UK); 17 circuits, 126 pp., $14.95



AUDIO ANTHOLOGY by C.G. McProud; reprints of articles about tube audio circuits:
VOL #1, 1947-49, 125p $16.95
VOL #2, 1950-52, 125p $16.95
VOL #3, 1952-54, 96 p, $16.95
VOL #4, 1955-57, 144p $16.95

- MILITARY TUBE LISTS -

#MIL-HDBK-213A, ELECTRON TUBES, CROSS INDEX and TYPE IDENTIFICATION, Nov '63; comprehensive list of tubes used by the U.S. military; 303 pages, 3 lbs. $27.50

#T.O. 08-1-25, VACUUM TUBE COMPLEMENTS of SIGNAL 10/44; tube line-ups of many vintage military & commercial radios. Also lists by tube # the radios in which tube is used. 192 pages, 3 lbs. $19.95

OLD RADIOS

THE COLLECTOR'S GUIDE TO ANTIQUE RADIOS by M. & S. Bunis; the best guide on 5000 radios (1920-1959) with 400 quality color pictures! 4th Edition; 8x11.5, 175 pp. $18.95

ANTIQUE RADIOS, Restorations and Price Guide by D. Johnson; old radio theory, repair, cabinet clean-up, price guide. 8.5x11, 160 pp. $14.95

GUIDE TO OLD RADIOS by D & B Johnson; pointers, pictures, prices and some history. 2nd Ed; 277 pp. $19.95

PASSPORT TO WORLD BAND RADIOS by International Broadcast Services, Ltd. Top selling SWL highlights & Buyer's Guide section. Program list by time & country plus Blue Page list by frequencies 3375 thru 25940 KHz, country, station, and air time, 416 pages,4 lb $16.95

COMMUNICATIONS RECEIVERS, 3rd Edition by R. Moore; pictures of receivers from 1932 to 1981. 125 pp; $19.95

TRANSMITTERS-EXCITERS & POWER AMPLIFIERS 1930-1980 by Ray Moore; companion to Communication Receivers book! 470 pics; 147 pp. 8.5x11, $21.95

SHORTWAVE RECEIVERS PAST & PRESENT, 1945-1997, 3 rd Ed. by F. Osterman, pics & specs of European, Japanese and U.S. commercial Rx. Includes original and estimated used" prices; 471 pgs, 3 lb, $24.95

POWER-UP! by Dave Strom, how-to-make battery packs from common batteries for military radios BC-611, PRC-6, PRC-8-9-10, PRC-25-77, PRR-9/ PRT-4; also radiacs, PVS-7, seismic, + some hook-up.95 pp. $13.95

ARRL Books

ANTENNA BOOK, 17th Ed $30.

ANTENNA COMPENDIUM f/ QST, Volume I, $10. Vol II, $14 Vol III, $14. Vol IV & V, $20 ea

ANTENNA IMPEDANCE MATCHING, $20.00

ARRL ELECTRONICS DATA BOOK, $15.00

HINTS-KINKS, 13th Ed., $10.

OPERATING MANUAL, 4 th Edition, $22.00

QRP POWER, $12.00

SATELLITE EXPERIMENTERS HANDBOOK, $ 20

SOLID-STATE DESIGN, $15.

200 METERS-DOWN, $8.

UHF / MICROWAVE EXPERIMENTER, $20.00

UHF/MICROWAVE PROJECTS MANUAL, Vol 1, $20

WFIB's DESIGN NOTEBOOK, $10

- MILITARY RADIO LISTS -

#TM11-487A DIRECTORY of OLD SIGNAL CORPS...RADIO EQUIPMENT, 8/ 1950. 4 pgs missing, 246 pp; $22.95

#TM11-310 SCHEMATIC DIAGRAMS of SIGNAL CORP - GROUND RADIO EQUIPMENT 1943-47; 32 selected vehicle & field radios; 228 pp. $24.95

STORE HOURS:

MONDAY THRU FRIDAY 9 A.M. TO 5:30 P.M., SATURDAY 9 A.M. TO 1 P.M.

TERMS

PRICES NET, F.O.B. LIMA, OHIO. SEND MONEY ORDER, CERTIFIED CHECK, VISA, MASTER CARD, OR DISCOVER with PURCHASE ORDER. We reserve the right to hold an order accompanied by personal or company check until after check clears the banks.

MINIMUM ORDER

is $10.00 ($25.00 outside U.S.) + shipping charges. Minimum charge on approved U.S. open-accounts is $20.00 + shipping $. COD orders permitted at our discretion, if customer provides 50% of total cash deposit. UPS COD fee $5. Include sufficient money for shipping charges. (UNUSED-PAYMENTS RETURNED AT ONCE.) Otherwise we will hold order & advise charges.

DESCRIPTIONS

All material offered in this catalog is in "Used-Complete" condition, unless qualified and/ or noted as "Reconditioned", "Unused," or "New."
Merchandise is not operationally checked unless specified as "Checked."
Equipment described as "Reparable"--meaning "able to be repaired"-- is electro-mechanically complete, but requires some trouble-shooting by the customer.

DISCLAIMER

Items in this catalog are "used" and/ or "obsolete" equipment which may not conform to current Federal laws governed by the Federal Communications Commission (FCC), the Occupational Safety and Health Agency (OSHA), the Environmental Protection Agency (EPA), and other federal and state governmental agencies.

Furthermore, many items in this catalog have potential to produce harmful and even lethal electrical voltages. Proper and safe use of any item purchased is the customer's sole responsibility.

The customer assumes all liability and holds Fair Radio Sales Co., Inc. harmless for compliance to current and future laws pertaining to the use and possession of equipment purchased, for any personal injury liability arising from improper and unsafe use of purchased equipment, and for any property damage caused directly or indirectly by equipment use.

10 DAY RETURN POLICY

Customer may return items for refund of purchase price of the item within 10 days of receipt of order. Authorization for return required!

DAMAGED MERCHANDISE

Claims must be made within 10 days of receipt. Fair Radio reserves the right to repair, replace or refund at its discretion such merchandise. Unauthorized returns & claims beyond the 10 day period are subject to 15% or $5.00 (whichever is greater) restocking charge. Returns and claims will not be accepted after 30 days of receipt of order!

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

ELECTRON TUBES

UNUSED in original military or commercial boxes:

2C43 $18.00
2E26 RCA $6.00
2K25 Raytheon, $30.
3B28 various, $14.00
3C23 $18.00
3TF7/RT510 $17.50
4D32 Raytheon, $28. 10/$240. 32/$700.
6AF6 "eye" $9.00
6AJ5 Tungsol, $3.50
6AZ8 ECG $6.50
6B4GA Sylvania (does not test like 6B4G), $17
6CA7/EL34 Sovtek $9.
6CB6A RCA, $3.00
6DC6 various, $6.50
6DK6 GE, $3.00
6EJ7 England $3.00
6L6GC Sovtek, $4.75
6SG7 $3.00
6SH7 $3.00
6SK7GT various, $4.00
12AX7 Sovtek, $4.75
12BE6 GE, $3.25
33, 34, 35/51, 36, 38, 39/44, 43, 57, 58, 77, 78, 79, 89: $4.50 ea
53 $6.50
83 Sylvania, $9.00

717A, 884, or 885 $7.50
811A Cetron $25.00
954-955-956 acorn $3.50
1616, 1626, 1619 $5.50 ea
1625 Nat-Union, $4.50
1629 "eye" tube, $11.00
5675/4042, ~~$24~~. $19.
5763 various, $7.50
5755 Raytheon, $2.95 10/$25 100/$195
5852 (6X5) Bendix, $4.
5998A Syl, $9.95
6000 MU, ~~$40~~. $25.
6012 RCA, $25.00
6082 various, $10.00
6336B Cetron, $30. 10/$250. 60/$1320.
6922 ECG (=6DJ8) $3.50 10/$28. 100/$200.
7308 "Amperex" but look Russian $3.50 10/$30
7360 ECG, $15.00

- - - NUVISTORS - - -

7586 $10.00
7587 $12.00
8056 $5.00
8058 $18.00
8552 ECG, $12.00

- *MANY* other tubes available. Visit our website for a much more complete listing or tell us your needs.
- If you specify unused and unused is sold-out, we will ship used checked, unless you specify "unused only".
- Many tube types available in glass and metal. Please specify if you have a preference.
- *POWER TUBES* are lised on the following page.

The tubes listed below are $4.50 unused and $2.50 used.

0A2 0A3 0C3 0D3 OZ4 1A5
1A5 1B3 1B4 1C5 1D5 1E7
1J3 1L4 1N6 1P5 1R4 1R5
1S2 1S4 1U4 1U5 1X2 1V2
1LA4 1LA6 1LC5 1LC6 1LE3

3A5 3B4 3Q4 3Q5 3S4 3V4

5A6 5R4 5U8 5V3 5W4 5Z4

6A6 6B8 6C4 6C5 6C6 6F5
6F7 6F8 6G6 6K4 6K6 6J4
6J5 6J6 6J7 6L5 6L7 6N4
6N7 6R7 6S8 6T4 6T7 6T8
6U6 6U8 6V3 6V7 6V8 6W4
6X4 6X5 6X8 6Y6 6Z4 6Z7

6AB4 6AB7 6AC7 6AF3 6AF4
6AF5 6AF9 6AF11 6AG5 6AH4
6AH6 6AK5 6AK6 6AL5 6AN5
6AQ5 6AQ7 6AS5 6AR6 6AS6
6AU4 6AU5 6AU6 6AU7 6AV5
6AV6 6AX4 6AY3 6BA6 6BA11
6BC5 6BC8 6BE6 6BH6 6BJ3
6BK5 6BK7 6BN4 6BN6 6BN8
6BQ6 6BU8 6BZ6 6BZ7 6CB5
6CF6 6CG3 6CG7 6CL6 6CM7
6CS6 6CS7 6CU5 6CU8 6CY5
6CY7 6DA4 6DE6 6DG6 6DN7
6EA5 6EA7 6EB8 6EH4 6EM7
6ES5 6FW5 6GF7 6GH8 6GJ7
6HB7 6JT8 6JU8 6LU8 6SA7
6SC7 6SD7 6SF5 6SJ7 6SK7
6SL7*black* 6SQ7 6SR7 6SU7

7A4 7A5 7A6 7A7 7A8 7B7
7B8 7C4 7C5 7C7 7E7 7K7
7L7 7Q7 7R7 7S7 7T7 7V7
7W7 7X6 7X7 7Y4 7Z4 7AD7
7AG7 7AH7 7AK7 7AU7 7GS7

8B10 9KZ8 10EG7 10DE7

12A6 12A8 12C8 12B4 12D4
12H6 12J5 12J7 12K7 12K8
12L6 12C7 12W6 12Z3
12AC6 12AH7 12AX4 12AY7
12AZ7 12BA6 12BA7 12BF6
12CA5 12SF5 12SG7 12SH7
12SJ7 12SL7 12SN7 12SR7

14A5 14A7 14B8 14C5 14C7
14E6 14N7 14R7 14W7

15KY8 17D4 17AX4 17BF11
17GW6 19T8 19AU4 21GY5
21JV6 25L6 25W4 25Z5 25Z6
25BQ6 25DN8 27GB5 32L7
35A5 35B5 35C5 35L6 35Y4
35Z3 35Z4 45A5 50C5 50L6
50HK6 70L7 117Z4 117Z6

5651 5654 5670 5672 5678
5725 5726 5727 5750 5751
5814 5842 5963 5965

6005 6186 6189 6679 6888

7056 7058 7167 7258 7716

9001 9003 9004 9006

USED-checked (US-mfg):

2E22, $10.00 3E29, $9.00
5U4GB, 6AS7G $3.00
6SL7WGT, 6V6GTY *BROWN* $3
24A, or 27, $3.50
26, or 42, $5.50
80, or 807, $6.50
6V6G (Eng.) or 6080W, $4.25

ANTIQUE GLOBE TUBES, used-checked, $7.50 each:
224/324 227/327

- - PULL-OUT SALE - -

"pulled-out" of equipment– NOT TESTED/ NOT GUARANTEED! (Cheap Prices for one tube type per quantity!):
10 for $8.00; 100 for $50.00

0A2 0C3 1U4 3D6 3Q4
3Q5 6AC7 6AG5 6AK5 6AL5
6AS6 6AU6 6AV6 6AU4 6BA6
6BN6 6BQ6 6H6GT/M 6J4
6J6 6K7 6SH7 6SU7
6W4GT 6X5 12A6 12AT7
12SX7 5678 5963 5965

OTHER "PULL-OUTS"
10 for $10.00. 100 for $75:
6U8 6Y6G/GT 12AU7 5670
5687 5814 6414

Fair Radio Sales Co., Inc.

1016 E. EUREKA ST.
P.O. BOX 1105
LIMA, OHIO 45802-1105
TEL: 419-227-6573

Name Please Print Clearly Date

Street Address R.F.D. P.O. Box

City State Zip

REMARKS:

WS-99

CATALOG STOCK NO.		Page No.	Quantity	DESCRIPTION	Price Each		Total Price Add This Column		DO NOT USE

TERMS: Our terms are cash. All trade and cash discounts have already been deducted in our catalog quotations. We reserve the right to hold an order accompanied by personal or company check until after the check clears the banks. All prices are net, f.o.b. shipping point.

Please allow for shipping charges. Items over 150 lbs. shipped via truck-freight collect. Consult your local motor frieght office.

IMPORTANT: Any correspondence not connected directly with this order should be placed on a separate sheet. This will speed handling of both order and letter.

HOW SHALL WE SHIP

☐ PARCEL POST
☐ BUS
☐ FREIGHT
☐ AIR
☐ BEST WAY
☐ UPS

Include suffiicient money for poostage. We refund unused amounts. Please send cash by registered mail only.

FILL IN AMOUNT ENCLOSED.

Money Order		
Cash		
Check		
Credit Memo		

MINIMUM ORDER $10.00

PLEASE DO NOT USE THIS SPACE

MasterCard VISA DISCOVER

NUMBERS ON CREDIT CARD

EXPIRATION DATE

TOTAL FOR GOODS			
STATE TAX (Ohio)			
For Postage and Insurance			
Due from Previous Order			
TOTAL			

VISIT OUR WEBSITE AT FAIRRADIO.COM

POWER AMP TUBES

JAN-Boxed Eimac made tubes:

4CX5000J, 5 KW tube @ 30 MHz used in variety of power amps; 7.5 V 100 A heater, 7500 V plate. 8.5"H x 5"dia, 13 lbs sh. UNUSED, $650.00

4CX300A/ 8167, ~~$85.00~~ $45.00

USED-LAB-TESTED, Eimac and/or Amperex mfg:
4X150D, 26 V filament, $16.00
4CX250FG/8621, 26 V filament, $40.00
4CX350FJ/8904, 26 V filament, $35.00

EIMAC 3CX10000A7 / 8160 10 KW PA TUBE, high-mu for zero-bias class B audio or RF; requires SK-1300 socket, 16 lbs sh. USED JFF-tested, $750.00

REFLEX KLYSTRON

SRL-7H for 2160-2400 Mhz; Requires 6.3 V filament, -1000 VDC beam V; reflector volts adjust -1300 to -2000 V. Has Coarse & Fine Tune slugs, N-conn & octal base. 6.5"x5.2"x4.5", 4 lbs. shipping UNUSED w/info, $49.50

+ +

SPERRY 2K41, 2660-3310 MHz, 20 mw-2.7 W. Heater 6.3 V 1 A. Beam 300-1250 V 15-60 ma. Reflector 0 to -750 V. Has integral tuner & resonant cavity; octal base. 4.5x5.5x2.3, 4 lbs. UNUSED, $45.00

+ +

VARIAN VA-98M/8901 KLYSTRON, 23.6 - 24.4 Ghz 100 mw CW; Eb=500 V @ 40 ma. 2.8"Lx 1"Hx1.3"D w/ 6"L wire leads; 2 lbs sh. NEW, $125.00

UNUSUAL TUBES

for collector's and experimenters; Filaments checked, but not guaranteed.

no markings but looks like some kind image or photomultiplier with 14-pin basing. 4.8"Hx 2.3 " dia glass + two 1/2"L contact pins opposite each on tinted end of cylinder; 1"L glass extension from side. Curiosity tube for experimenter / collector! #XTUBE-98, $20.00

+ +

JAN 705A RECTIFIER, 4-pin base; 5"Hx2.3" dia. used $4

GL-6044 oversize 6-pin w/ 4 tabs; 5.3"Hx2.3" dia. UNUSED, $5.00

C6M THYRATRON, 8.5"Hx2"dia USED, $4

RCA 4012/A1157 TRAVELING WAVE TUBE, 2.0-4.0 GHz, 36 db min., 20 w min. 15.5"LX3.5"Hx1.5"W. 4 lbs UNUSED, $40

TUBE SHIELDS

for most 7-/9- pin mini tubes (specify #) used $.40
#TS1030U2 SHIELD 12AX7-size, $.60
BLACK IERC-Type SHIELDS, used:
#TR5015 (6AK5) or #TR5020 (6BA6-size), $.85
#TR6015 (5842) $.95

TUBE TEST ADAPTERS for TV-7, used:
#E104 for sub-mini tubes, $5.00
#E105 for septar 829/832, $7.00
#E107 for 2C39, $7.00

PIN STRAIGHTENER

GENERAL ELECTRIC TUBE PIN STRAIGHTENER for 7- and 9-pin miniature tubes; red-blue plastic, 2.9x1.3x1.1. GE#55-128, new, $3.50

TUBE SOCKETS

OCTAL-USED: bakelite ring or 2-hole mt, $.45
Ceramic 2-hole, $.95; Fiber Wafer, unused, $.30
4-PIN CERAMIC WAFER SOCKET, used, $3.00
6-PIN FIBER WAFER SOCKET, unused, $.75
MINI 7- pin mini, moulded or bakelite, NEW, $.35
MINI 7-pin mini with collar for shield NEW, $.60
MINI 7-pin CERAMIC with collar f/shield, NEW $.80
SUB-MINI, round short-lead, unused, $.75
SUB-MINI, round, long-lead, unused, $.85
ACORN FLAT CERAMIC SOCKET, used, $5.00

+ +

U-102 OCTAL TEST SOCKET, test points for octal tube; plugs into socket,. #4578, NEW, $2.00

+ +

#410-S ORON TUBE SOCKET for 3-500Z, 4-400A, 4-125A 5-pin PA tubes. Stainless steel 3.6" dia (92 mm) ring has ceramic insulated silver plated contacts. NEW, $27.50; 2 for $47.00

+ +

JOHNSON #209 SOCKET, ceramic for medium 4-pin bayonet base (811, 3B28 etc); 1 lb.used $7.50

#122-101-200, septar socket w/ventilated shield, $7

CATALOG STOCK NO.		Page No.	Quantity	DESCRIPTION	Price Each		Total Price Add This Column		DO NOT USE

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

CATHODE RAY TUBES

Used no burns:

2BP1	15.00	3JP1/P12	8.00	5CP1	10.00
3AP1	15.00	4MP1	20.00	5FP7/14	12.00
3ADP1	15.00	4QP31	35.00	5GP1	15.00
3BP1A	15.00	5ABP1	20.00	5HP1	15.00
3DP1	6.00	5ADP7	30.00	5JP1	12.00
3GP1	15.00	5AMP2	25.00	7ABP7	15.00
3HP7	4.00	5AQP2	25.00	7BP7	9.00

CRT for HP180/USM-281A , $45. f/ TEK 453, $85. f/ TEK 454A, $100. f/ TEK 531-535, $45. f/ TEK 541-545, $45. f/ TEK 545A, NEW, $65.

SOUNDING DEVICE

PIEZO ALERT WARNING DEVICE, 6-12 VDC produces 105 db piercing Hi-Lo beep. 4.2x4.2 x1.8, 1lb. #MG-SB-2, NEW ~~$14.95~~ $11

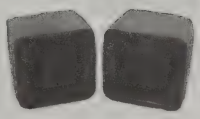
FARADAY HORN

FARADAY 48 VDC 100 ma HORN, made for Bell Telephone; makes loud, penetrating sound w/ screwdriver volume adjust. Steel construction; recess mount. Front size 4x4x1.3 1.3" panel depth. 3 lbs #KS-12037L2, NEW, $5.95

ALARM BELL

ADAPTABEL INDUSTRIAL ALARM BELL, 5.8" dia bell operates from 6 VDC 250 MA for non-fire use. Heavy metal cast construction with mount hardware; 3 lbs. Edwards #435-6C1, new, $9.95

SPEAKERS



SPEAKER PAIR in PLASTIC ENCLOSURES, each 4" dia 16 ohm 1 W speaker in attractive 6.8x6.8 x5.3 enclosure with 6' cord and RCA plug. White & black plastic per pic; 4 lbs sh. #ER-PL-SPK-PR, NEW, $3.95/pair

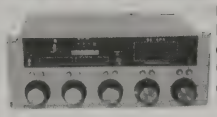
+ +

3 X 5 SPEAKER, 2 watts with 1.8" dia magnet; 1 lb sh. 16 ohm 1 W. NEW, $1.35 ea; 10 for $12.00 100 for $95.00

Transistor Audio Amplifier

TRANSISTOR AUDIO AMPLIFIER w/5-transistors, On-Off-Volume and Tone controls. Inputs for ceramic or crystal phono cartridges. Other possible uses as intercom, home-brew receiver, child's projects. Use with 8 or 16 ohm 3" or 4" speaker. Requires 6-9 V AC or DC; with schematic. 1.5x2.3x3.3. #ER-10-1231, NEW $2.95; 2/$5.00

RAMKO AUDIO MIXER



RAMKO DC-5RA 5-INPUT AMP/MIXER, each input has Level Control and can be connected to "A" or "B" buss or not connected to either. Each buss has LED VU-meter and Master gain control. Input level -60 DBM 510 ohms/0 DB 560K ohms; factory set @ 0 DB, but can be changed per manual. Response 20 Hz-20 KHz. Speaker monitors input channel; w/ manual copy. Requires 115 V 60 Hz; 7x19x15, 17 lbs. shipping. USED, not tested, $79.50

5 CHANNEL MIXERS

MICRO-TRAK PM5-MX AUDIO CONSOLE, monaural unit for radio & TV audio control has five inputs with Level Control, four of which have two balanced inputs with Cue, Off and Program. Fifth input has five selectable balanced inputs with Cue, Off and Program. Also Master, Monitor, Cue, Headphone and Talkback Level controls. Uses IC/FET switches for input selection and voltage controlled attenuators for setting levels. Also has internal 10 watt amplifier, analog VU-meter, headphone amplifier and built-in speaker. May be production "rejects"as they have minor problems; with manual/schematic. 3.5x19x16, 18 lbs sh. #PM5-MX-LS, lever switch Cue-Off-Prog, $150.00 #PM5-MX-PB, push button Cue-Off-Prog, $149.50

Volume Level Meters

DAVEN TR924 VOLUME LEVEL INDICATOR, solid-state unit measures audio levels of broadcasting, sound recording, telephone transmission and related equipment. 600 ohm TERM or 12500 ohm BRIDGING inputs accessible via front panel phone jacks or terminal strip on rear. Consists of 4.5" dia VU-meter and step attenuator for levels +20 to -40 db for TERM or +20 to -20 db BRIDGING in 2 db steps. Requires 115 VAC 50-400 Hz; 5.3x19x7.3, 20 lbs shipping. USED-excellent with manual, $95.00

See page 36 for Sound & Noise Level meters

100 WATT AUDIO AMP

GROMMES-PRECISION ST100E AUDIO AMPLIFIER, solid state 100 watt public address amp; response 35 to 20000 Hz 4 ohm output, 0.3% distortion. Volume controls for MIC-1 & -2, AUX input, MUSIC and MASTER plus BASS and TREBLE controls. Also slide switches Loudness bass boost and Lo Filter plus Peak Power/Overload indicator. Back panel outputs for 4 to 8 ohm and 25 or 70 V speakers, Booster Amp, Mute, 600 ohm telephone line page, two Lo or Hi Z mic select, two XLR 3-pin male mic connections and AC acessory outlet. 4.3x15x12.8, 25 lbs sh. NEW, $199.50

CHOKES

Dimensions listed below are case only, so make allowance for terminals. Weights listed below are considered SHIPPING weights. styles as indicated; may be "used" or "unused": Limited stock.

STYLES (A) (B) (C)

1 mHY 10 A; reactance coil 3x3.8x3.2, (C) 7 lb, #99-1MH-10A, $8.95

1 mHY/5.0mHY 11A/1A swinging 6.8v - 120cps .07 ohm 2x2.3x3, (A), 4 lb, #103-1MH-11A, $9.50

2 mHY 15 A, 0.14 ohm DC res. 3.8x4.3x3.3 (A), 8 lb, #WE1060A, $9.95

120 mHY 550 ma 2.5 ohm; 2.3x2.7x2.1, (A), 2lb, #LI-60, $4.00

400 mHY 1.2 A 3 ohm, 2.4x4x4.3, (A), 10 lb, #91-400MHY-1.2A, $9.00

1 HY 50v - 400 cps 1A 1650 volt test, 4x4.6x4.9 , (A), 13lb, #103-1H-1A, $9.50

2.4 HY 100 ma 100 ohm,1.5x1.5x2.3, (A), 2 lb, #99-2.4H-100MA , $ 10.50

2.5 HY/12.5HY 200ma/20ma 137 ohm, swinging 2x2.3x3, (A), 5 lb, #104-2.5H-200MA, $9.00

4 HY 50 ma 110 ohm, 1.5x1.5x2.3, (A), 2lb, #104-4H-50MA $6.95

4.5 HY 400ma 45 ohm, 4x4.5x4, (A),12 lb, #97-4.5H-400MA $14.50

5 HY 130 maDC 115 ohm, 350VDC working 2.3x2.3x3.5, (C) coated, 3 lb, #91-5HY-130MA, $12

6 HY 90ma 25 ohm, 1.9x1.7x2.4, (A), 2 lb, #95-6H-90MA, $11.00

6 HY 150ma 137 ohm, 2x2.3x3, (A), 4 lb, #104-6H-150MA, $14.00

8 HY 85ma 175 ohm, 2.5x2.4x3, (A), 5 lb, #95-8H-85MA, $12.00

9.3 HY 10ma 750 ohm, 1x1x1.4, (A), 1 lb, #95-9.3H-10MA, $4.00

10 HY 100ma 140 ohm 175V -120 cps, 2.5x2.6x2.6, (C) coated, 4lb, #97-10H-100MA $12.50

15 Hy 5 ma 400 ohms, 1x1.9x3, (A), 1 lb #L2/AM20, $4.00

28 HY 75ma 425 ohms, 3x3.2x2.8, (C) coated, 5 lb, #103-28H-75MA, $11.00

C-161 LOADING COIL used with switchboards as 1:1 ring-thru transformer; CT line-side winding. Popular in old phone patch projects; 3x5x2.6, 4 lbs sh. used $12.

C-114 LOADING COIL, adds 88 mH inductance to field phone wire increasing effective range 125+%. Water tight case; 4 lbs sh. used $10.00

VISIT OUR WEBSITE AT FAIRRADIO.COM

LOW VOLTAGE TRANSFORMERS

All 115 VAC 60 Hz primary unless otherwise noted; styles as indicated; may be "used" or "unused": Dimensions listed below are case only, so make allowance for terminals. Weights listed below are considered SHIPPING weights. Limited stock.

STYLES (A) (B) (C)

SECONDARY SIZE STYLE WT STOCK # PRICE

4.5-6.5V 12 A , 5x6.1x4.5(A) 21 #T-4565 $6.50

Two 5 VCT 4 A 2.8x4.5x2.5(A) 6 #645-9758 $12.
5 VCT 2 A

Two 5 VCT 3 A 3x3.3x3.4(C) 7 #P-6333 $9.95
7.5/6.3 VCT 3 amps, 6.3 VCT 4 A

Two 5 V 2 amps 3.5x4.5x3.5 (A) 9 #T1/419A $7.50
6.3 V 5.5A, 6.3 V2.4 A

5 VCT 12 amp, 7.8x4.3x3.5 (A) 14 #9T35Y150 $12.
5 VCT 6.5 A

6.3 V 3 amp, 3.8x4.8x3.5 (A) 5 #TF1AO1JA $5.95
6.3 V 2.5 A, two 5 V 2 A

4 x 6.3 V 1.75 A 2.5x3x3(B) 4 #F-34 $7.50

6.3 V 5.5 amp 3x5.3x3.3 (A) 6 #762805 $5.50
6.3 V 2.75 A

6.3 V 3.6 amp 3.1x3.5x3.9 (A) 4 #762806 $4.50
two 15 V 4 ma

6.6 V 2.7 amps 2.5x4x2.3 (A) 3 #9T35Y321 $5.00

6.6 V 10 amps 3.9x4.8x3.4 (A) 7 #81G401 $7.50

9.2 V 600 MA 2x3x2(A) 2 #NE-1063-P $3.95

+ +

10 V 4 amp, 3x4x3.5 (C) 7 #BE-12696 $4.95
18 V 1.5 A, 19 V 2.5 A

12.5 V 2 amps 3x3x2.5 (B) 2 #FR-24960 $2.95

12 V 9 amp, 5.3x4.3x4.8(C) 22 #P-601719 $8.95
12 V 3.2 A, 12 V 2 A, 44 V 2.5 A. (12 V windings can be wired to produce 12 V 14 A)

13 V 20 amp, 4x3.5x3.8(C) 10 #430-9001 $19.95

14 V 35 amp, 3.8x4.3x4.3(C) 14 #430-7001 $29.50

15 V 3 amps 4.5x3.8x3.8(C) 13 #PV-175-9 $4.95
13 V 2 A, 6.3 V 7 A with capacitor

15 VCT 3 amp, 2.5x3x2.5 (C) 2 #TRA-1577 $3.95

16.5 VCT 2 amps 2.6x2.5x2 (C) 2 #BE15869 $3.95

17 V 1.5 A, 2.5x3x2.5(C) 3 #54-995 $4.00
19 V 1.6 A

18V 5.4A, 4.5x4.8x4(C) 16 #401-21 $8.95
26 V 1 A, 6 V 900 ma,
25 V 500 ma, 35-10-0-10-35 V 5 A

18 V 1.5 A, 3x4x3.5 (C) 7 #BE12696 $4.95
19 V 2.5 A, 10 V 4 A

18 V 4 amp 2.5x3x2.8 (B) 4 #SK-710202 $4.95

+ +

20 V no load 3x3x2.5 (B) 2 #FR-24960 $2.95
or 12.5 V 2 amps on 4" dia plate.

22 VCT 3 amp, 3.8x3x4(C) 8 #3S92890015 $4.95
80 VCT 1 1/2 amp

23 V 300 MA 3x4.5x3(A) 6 #SMB202959 $6.95
6.4 V 6.4 amps

24 VCT 2 amp, 3x2.3x2.6(C) 4 #52512-1 $5.50
13 VCT 2 A, 60 V 150 ma

24 VCT 2 A 2.5x4x2 (C) 3 Triad #F-192X $5.50

24 VCT 3 amp 4.5x3.8x3.3(B) 8 #KAL-2334 $5.95
40 VCT 575 ma, 105 V 350 ma

25 V 7 amps 3.5x4.3x3.5(C) 12 #TF5SX02ZZ $8.50

26.8 VCT 1 amp 2.5x2x2.3 (C) 2 #401-17 $3.00

27 VCT 2.2 amps 2.5x3x2.3 (C) 4 #4462 $4.50

28 V 6 AMP 5.5x2.8x3.5(C) 6 #LR80498 $8.50
on chassis w/ On-Off & line cord

+ +

2x30 V 250 MA 1.8x2x1.5(A) 1 URC#60605 $2.50

30 VCT 200 MA 2.3x1.3x2(C) I URC#374501-1 $2.95
45 VCT 100 MA, 2.5v 30ma

30 VCT 10 A 3.8x5.3x4.5(C) 15 #TT2302 $19.00

30 VCT 560 ma 2.5x2.3x2 (C) 2 #401-6 $3.00
40 VCT 450 ma

31 V 5 amps, 3.5x4x3 (B) 8 #TI-723 $7.95
39 VCT 2 amps

32 V 5 amps 3.3x2.8x2.3(C) 4 #X5157308 $5.95

32 VCT 1.5 A; 2.5x2.6x2.1(B) 3 #142259 $3.95

35 VCT 1 amp 2.5x2.8x3(B) 3 #1341155-2 $2.50
Rusty condition

36 VCT 2 amps 2.9x3.5x2.3 (B) 3 #SR-448 $4.95

38.9 V 4 amp 2.6x3.8x3.5(C) 5 #021/0220050 $7.50
tapped 26-9-3-0.9 V, 150 VCT 200 ma

+ +

40 VCT 1 amp, 3.3x3.8x3.3(C) 7 #P-1220 $7.00
31 VCT 2 A, 11 V 1.2 A

40 VCT 2.1 A, . 3.5x5.5x3(A) 8 #9807 $6.95
24 V 1 A, 117 V 50 ma: sealed

40 VCT 1 amp 3.3x2x2 (B) 2 #URC56000 $2.95

40 V 2.5 amps 3.3x5.3x3.8 (A) 10 #43278 $4.95
6.3 V 1.5 amps

42 VCT 2.5 A 6.3x5.8x4.8 (A) 14 #235-2593 $8.95
2 VCT 12 amps

44 VCT 11 A, 4.6x6.1x4(A) 18 #M5087 $25.00
44 VCT 3.5 A

+ +

50 VCT 2 amps, 3.8x3.5x3(B) 5 #701-129 $4.95
6 V 2A

2 x 52 VCT .3A 2.5x3.4x2.8(C) 2 #9100-0168 $4.95

52 VCT 2.6 amps, 3.2x3.8x3 (B) 6 #EIA606-451 $7
tapped 33 and 18 VCT

+ +

70 VCT 5 amps, 4.5x4.8x4 (C) 16 #401-21 $8.95
tapped 20 VCT; 18 V 5.4 A, 26 V 1 A, 6 V 500 ma

80 VCT 1.5 amps, 3.8x3x4 (B) 8 #3S92890015 $5
22 VCT 3 A

100 VCT 1.5A 5.3x6x7.5(C) 23 #GE-9T91A4069 $6
20 VCT 3.0A 2/20V. 3.0A 35 V 5.0A with capacitor

115 V 75 MA, 4.8x7x6(A) 14 #BP-18585 $9.95
6.3V 6A, 6.3V 3A, 6.3V 1.8 A, 2.5V 5A

High Voltage Transformers

SECONDARY SIZE STYLE WT STOCK # PRICE

375 VCT 50 MA 2.5x3x2.6 (B) 3 #8316527 $5.50
6.3 V 2 amp (230 VAC only primary)

882 VCT 188 MA 4.3x3.6x4.4(A) 13 $8.50
(203 VAC PRIMARY.) #34-882V-188MA

950 VCT 100 MA 4x4.6x6(A) 16 TF1QY01MA $14.95
6.3V 6A, 6.3V 3A, 6.3V1A, 5V 3A

1232 VCT 50 MA, 4.3x5.3x3(A) 10 #146-44-1 $9.95
tap 437 V 15 ma, 5 V 2 A, 6.3 V 2.5 A, 6.3 V 3.2 A

1550 V 30MA 3x3.5x4(A) 8 #15-1550V-30MA $4.95

1752 V 270 ma 5.5x4x4.5 (C) 20 T1/AM6154 $45

2000 VAC 125 UA, 3.5x4.3x3.3(C) 6 #T101/CP95 $6
400 VCT 25 ma 6.3 V 1.2 amps, 26 V 400 Ma

Audio Transformers

Primary Secondary

40 ohms 75K ohms CT 300-5000 Hz
2.3x2.8x1.9(A) 2 lb #315/RM-13 $5.00

50 ohms 30ma 500 ohms 400 to 1900 Hz Mic
Transformer 1.5x1.3x1.5 1 lb #T204/PP115 $3.

100 ohms 100K ohms; input transformer,
2.3x4x2.3 (A), 2 lb #T3/AM20 $6.00

250/4000 ohm 150, 600 ohmCT 400-3000 Hz
1.8x1.8x2.5(A) 2 lb #C280/RM39 $4.00

500 ohm CT 500 ohms CT 600-12000Hz
2.3x2x2.5(A), 2 lb #T203/PPII5 $3.00

7500 ohm, 500 ohm 1500 V Test 200-5000 Hz
2.5 W 2.3x2.3x3(A), 3 lb #677N227 $4.50

9K ohms CT 600/250/125/60/30 ohms, output
transformer, 20 watts 50-10000Hz;
3.4x4.3x3.1 (A), 6 lb #T1/AM20 $20.00

10K ohms 600 ohms CT 1 W 1.5x2.1x1.5(A)
1 lb #AF/390A $5.50

62.5K ohms 1340 ohms, 100-10000 Hz 5 ma.
1.9x3x1.8(A), 1 lb. #502-5442 $5.00

+ +

TRIAD TRANSFORMERS

#TY-74S for transistor inverter having 12-14 VDC input: output 600 VDC 200 MA FW-bridge. 2x4x2.5. 3 lbs. NEW w/ info, $49.

#TY--61X TRANSISTOR DRIVER 100 ohms 100 ma : 100 ohm CT, 50-10KHz 500 mw. 2.7x1.5x1.5. $4.00

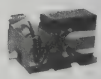
#TY-65Z MODULATION Pri: 32 ohms CT 575 MA DC Sec: 4K-6K ohms 10 W. 2.7x2.4x2, 2 lbs. USED $5.

Misc Transformers

TRANSFORMER-POWER SUPPLY Pri: 2 x115 VAC 48-62 Hz. Sec: 570 VCT 200 MA, 25 VCT 1.2 amps, 6 V 8 A. On chassis w/sockets for two 26Z5 tubes; 20 lbs. #PS-R390A, used, ~~$30~~ $25.

TORROID TRANSFORMER has DUAL 24 VCT 8 AMP outputs from 115 V 60 Hz input. Chassis 2.3x8.8x5.6; Torroid 4.5 dia X1.5"H; 8 lbs sh. #BC-24V-ASSY, $24.00

28 V 6 AMP TRANSFORMER on chassis with On-Off switch & line cord for 115 VAC input. 5.5x2.8x3.5, 6 lbs. #LR80498, used, ~~$9.95~~ $8.50



ISOLATION TRANSFORMER #A762101 , pri 115/230 V 60 Hz; sec 105 VAC 1 amp 2.2x2.6x2, 3#. NEW, $6.95 ea: 2 for $12.

FLYBACK TRANSFORMER for tube-type TV's. 5 V input yields about 1300 V 80 KHz out. Styles vary; 1 lb. #FLYBK-98, $5.

MODULATION TRANSFORMER Pri: 5500 ohm 235 ma or 2000 ohm 300 ma. Sec: 200 ohm 20ma 90 watts max. 3.1x3.5x2.9, 4 lbs. #677-0923, used, $8

1510 V "Y" TRANSFORMER, primary 200 V delta 3 phase 400 Hz; sec: 1510 V "Y" 500 ma; originally produced 2000 VDC for 1 KW xmitter. Usable with some automobile alternators to run high voltage equipment. 4x4.5x2.5, 5 lb #T1/T730, used, $20.00

3-PHASE POWER TRANSFORMER from Harris RF765 5 KW transmitter; two outputs of 1916 V 2.3 amps and one 1518 V 490 MA from 208/220/230/240 V 3-phase input. Made by Basler; 17x 26.5 x12.5, 300 lb Harris #10178-5200, used, $450.00

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

POWER SUPPLIES

5 VDC 6 AMP AC DC #ECV5N6-1 MODULAR SUPPLY, +0.05 line and load regulation from 100/117/220/23/240 VAC 47-440 Hz input; 4.9x5.6x2.5, 5 lbs. NEW, $15.

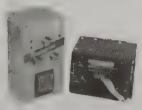
5 VDC 3 AMP EXELON DC REGULATED SUPPLY, and 12 VDC 0.1 amp output from 115/230 VAC 47-63 Hz input. 5x5.3x2.8, 4 lbs. #PS-1545, NEW, $10

10 VDC 15 AMP DC POWER SUPPLY provides 10 VDC 15 amp and 4.5 VDC 3.5A outputs from 100 to 127 VAC 60 Hz input. Wire output in series for 14.5 VDC at 3.5A. 7x12x4.5, 17 lbs. #PX-2939, NEW, $14.95

12 VDC 1.5 AMP DC POWER SUPPLY designed for small tool rated under inductive load like a motor. Output > 20 VDC under lesser loads; can be varied somewhat depending on load. With 6 ft AC cord; requires 115 VAC 60 Hz; 2.5x2.5x5, 3#. #DR-12VPS, NEW $10.95

COLECO DISK DRIVE POWER SUPPLY for ADAM system; transformer type with outputs +5 V 3 amp, +12 V 2.9 A, -5 V 200 ma, and +18 V inductive 1 A. 115 V 60 Hz input. With cords and On-Off switch. 11x4x8, 10 lbs sh. #COL72559, unused, $10

PP-3929A/FLR-9 DC POWER SUPPLY with outputs -12 VDC 8 amps and +12 VDC 2 amps. Has 3.5" dia meters 0-15 VDC and 0-12 AMP DC, switch for Output Select +10/-10 VDC and Voltage Adjust trimmer, Terminal strip on rear; mating connectors not availabe. Solid-state; requires 115 VAC 48-63 Hz. 4.8x19x18, 46 lbs sh. USED-REPARABLE, $35.00



Heavy-duty transformer type modular supplies trimpot adjustable outputs; 115/230 VAC input: DELTRON #Q28-3.I , 28 VDC out @ approx 3 amps. Current limit set at 8 amps but runs very hot to maintain 28 VDC. 7x4.8x2.8, 10 lbs. NEW, ~~$24~~. $20
DELTRON #QD12/15-3, similar to above but +/-12 to 15 VDC 3 amps out; 9x4.9x3.1, 9 lbs. NEW, $19.00

POWER ONE #CP366A DUAL SUPPLY, +24 VDC 3 amps w/ current limit adjust and +12 V 2 A output. 5x6.8x4.8, 11 lbs sh. NEW, ~~$28.95~~ $22.95

VARIABLE SUPPLY

0-36 VDC 34 AMP Lambda supply from 230 VAC 50-60 Hz input. Has digital readout and front panel controls for Output Voltage and Current Limit; also red-white-black terminal posts. 5x8.3x16, 40 lbs sh. #LT-803, USED, $275.00

Switching Power Supplies

48 VDC 34 AMP PP-8097 SWITCHING POWER SUPPLY designed to power FET-type power amplifier used with RT-1512/GRC-215 exciter. Also +/-15 VDC 1 A output, 6" dia 16/32 VDC fan; On-Off switch, two connections to P.A. and one input; mating plugs not available. No further info. Requires 110/220 VAC 50-60 Hz; 0x19.5x17.5, 100 lb USED-excellent, $100.00

HEAVY DUTY SWITCHING SUPPLY, outputs +5 VDC 28 amps, +12 V 4 A, +24 V 1.5 A from 115 VAC 60 Hz in. W/ ON-OFF switch, & 16-pin Molex output connector. "AS-IS" complete, no schematic" 2x5x13, 6 lb #SWPS-528, $6.95

SWITCHING POWER SUPPLY with 3" axial fan. Outputs +5 V 10 amp, +12 V regulated 2.5 A, +12.5 V 5 A unregulated from 115 VAC 50/60 Hz input. P/o Wang equip. 2.6x5.1 x12.5, 7 lbs. #12690, $14.

POWER SYSTEM switching supply, outputs +5 V 7 amps, +12 V 3 amps, -12 250 ma, -5 300 ma from 115/230 VAC 50-60 Hz input. 7.8x 4.4x1.5, 3#. NEW: #PS1558, $15.00

Power Supply Modules

+5/-5 V 3 AMP REGULATOR BOARD, up to 24 VDC unregulated. Capacitors two 15000 mf 15 V, 33000 mf 30 V. Two each KBPC rectifiers, 2N6576, 2N4441 SCR. 7.8x6x4; 3 lbs sh. #MEND-REG-5V, $5.00

REGULATOR MODULES from Sun supplies, each with current limit and voltage adjust. Includes bridge rectifier, filter capacitor, two 2N3055 or equal and 723 regulator; 2 lbs #SUN-REG-124, 12 V 4 amp, $10. #SUN-REG58, 5 V 8 A w/OVP; $8.

POWER SUPPLY MODULE with 3-conductor cord, fuse, 110/115 V input switch and 50% Voltage switch. Outputs: 18 V 350 ma & 30 VCT 600 ma; 50% switch, 9 V 350 ma & 15 VCT 600 ma. 6x4x2.3, 4 lbs. #PSM-4404-87AD, used, $3.75

COLLINS DC SUPPLY

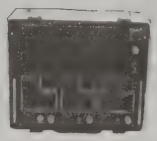
COLLINS 516E2 DC POWER SUPPLY for KWM-2 and S-Line xmitters; requires 24-28 VDC input. Solid-state; will not power 30 L1. 10x6 x7.5, 24 lbs. Used, $59.50

Wall Transformers

AURORA TOY WALL TRANSFORMER, changes 120 VAC to 9.5 VDC 350 ma output. 6' cord with slide lugs; 2 lbs sh. #AUR-95V34VA, 2 for $4.
CERVCO AC ADAPTER, 11.5 VAC 175 ma out-put; 6' cord w/o lugs. #CER-11.5V, 2 for $3.00

BATTERY CHARGERS

0-135 VDC 15 Amps
PP-1659A BATTERY CHARGER, used to charge storage batteries; produces unregulated 0-135 VDC 15 amp output from 115/230 VAC 50-60 Hz 15 amp input. Has 2.5" dia meters 0-150 VDC and 0-20 amps DC, Coarse and Fine 12-step controls, plus 115/230 V input selector switch. Input and Output each have circuit breaker; with power cord. 12x11x12, 60 lbs sh. USED, $49.50
Manual repro, $10.00



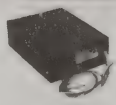
NI-CAD CHARGER
PP-6241 SOLID-STATE BATTERY CHARGER for silver-zinc or nickel-cadmium types. Three independent charging units with out-puts 8-16-32 VDC or 0-36 VDC in 0.1 V steps; 1 or 2.25 amp charge. With cables CX11971, CX11972, and CX11973. Requires 115 VAC 45-440 Hz input. 11.5x 13.8 x11, 46 lbs. With book: UNUSED, $79.50

DC CONVERTERS

ADTECH DC to DC CONVERTER, 28 VDC input; outputs 5 V DC 10 amp & +/-15 VDC 2 A. 2.3x4.8x10 5 lbs shipping. #3DD5-15N, NEW, $12.00

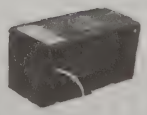
ASTEC DC to DC CONVERTER designed for PC mount; +5 VDC input produces 12 VDC 85 ma output. 1.2x1.5 x1, 1 lb. #AA7210, NEW, $2.95 ea; 2/$5.00

H V SUPPLIES

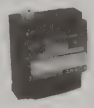


DC CONVERTER p/o CRT HV module; input 5-15 VDC 100 ma; output 4.5 to 13.5 KV. Also 135-402 V & 70-90 VDC. Potted; Use in experiments or in "bug zapper." 3.2x4.2x1.4, 3 lbs shipping. #ULC-14-07C, NEW, $12.95

VARO 3093A HIGH VOLTAGE DC SUPPLY, mini-size designed to power night-vision scope. Puts out -8 to -14 KV from 3 to 6 VDC input of C- batteries (not supplied). Case positive; 2.5"Lx1" dia., 1 lb shipping. CHECKED, $24.95



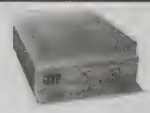
HIGH VOLTAGE POWER SUPPLY, input 120 VAC 50-60 Hz. Rated outputs: -5000 V (6+ KV tested) 1.8 ma, +120 V 15 ma, +24 V 0-1.25 amps, +16 V 200-450 ma. 4x9.5x4, 17 lbs shipping. #GE9T63Y2280G02, used, $12.95



STATIC NEUTRALIZER SUPPLY, 5 KV output from 120 VAC 50-60 Hz 20 VA in. 4.3x 3.1x2.6, 4 lbs shipping. #S-H-95078, NEW, $12.00

VISIT OUR WEBSITE AT FAIRRADIO.COM

INVERTERS



12.6 VDC to 120 VAC 60 HZ INVERTER, rated 500 watts continuous; 1000 W surge. Output is squarewave with zero-crossing. Has studs for input & terminal strip for output; 3.6x9.1 x13.6, 17 lbs sh. #RC-12500, NEW, $109.50

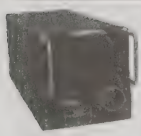
#RC-12200, 12 VDC to 115 V 60 Hz 200 W cont., 600 W surge; 3-cond outlet. 3x7.5x4.8, 7 lbs. NEW, $65

+ +

DC to AC INVERTERS, 12 VDC nominal input produces 117 VAC 60 Hz modified sine wave using switching circuitry. Power inverter blocks feature very low standby current, yet capable of fast turn-on when load applied. Current draw proportional to load. With 4.6" sq cooling fan; User must supply On-Off control & input-output fusing. 4.9x8.3x5, 5 lbs shipping. Ryan mfg, NEW:

#DCAC-12117-750WF, 750 watts; $129.95
#DCAC-12117-1000WF, 1000 Watts; $149.95
#DC12V125-4 12 VDC to 125 VDC SUPPLY, 200 W (350 W surge); suitable for small AC/DC tools or as small battery eliminator. 4.6x5x2.2; 3 lbs. $35.

2.5 KW AC INVERTER

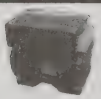


PP-2352/UR ELECTRONIC INVERTER, used with AN/TRC-75, output 115 VAC 400 Hz 2.5 KW 3 phase, 1 phase sinewave. Input 28 VDC 110 A. Connectors not available. 7.6x 7.8x19.5, 52 lbs. USED, $125.00 MANUAL, partial repro, $12.00

+ +

400 HZ INVERTER KIT removed from PP-2352; good foundation for 28 VDC to 115 VAC 400 Hz 500 watt 1 phase inverter. Includes oscillator feedback, driver, output, & regulator transformers, two saturable reactors & schematic info. Add other components to suit your power needs; 10 lb. #KIT400HZ-500W, $49.50

750 WATT INVERTER



ROTARY INVERTER, output 115 VAC 400 Hz 1 phase 750 VA from 28 VDC 60 amp input; Leland or =. 12x9.5 x7, 42 lbs. GOV'T-RECOND, $57.00

+ +

#R-INV1500-1, 115 VAC 400 Hz 1 phase 1500 VA output from 25-28 VDC 92 amps input. Older style Leland mfg; 9.3x17x7.3, 54 lbs sh. UNUSED, $49.50

+ +

#PU-16/AP INVERTER, like above except 750 VA out from 28 VDC 60 A in; 9.3x16.5x7, 40 lb $32.95

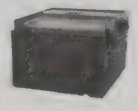
COMPASS INVERTER

DC to AC INVERTER for aircraft radio compass indicators. Input 24 VDC 1 amp output 26 VAC 400 Hz 1 phase 6 VA; 3.3x3.8x3, 3 lbs shipping. Pioneer #12117-6, UNUSED $16.95

Dynamotor Supplies

DY-107/AR DYNAMOTOR SUPPLY for ARC-44 radio. Output 138 VDC 140 ma, 310 VDC 30 ma, & 27 V 400 Hz 3 phase 10 VA; input 27 VDC 3 amps. 5x 9x3, 10 lbs sh. USED, $37.50

+ +



DY-79/PRD1 DYNAMOTOR SUPPLY for R-395 DF receiver; 24 VDC input. With 3 tubes and 2 ballasts; 10x14x16.6, 22 lbs sh. GOV'T-RECONDITIONED, $75.00
Manual repro for AN/PRD-1, $15

+ +

D-10A used $7 D-401 used $12
DM-36 re-new $15 DM-53 used $6 DM-53 12 V $8
DY10/ARC1 $14 DY-86/ARN-30 $7
PE-94 used $28 PE-133 used $10
3H1514-22 DYNAMOTOR for RBM Rx. Unused, $20
#2C4312/B50 HINGE SET f/DM-21in BC-312/342, $7

Variable Transformers

OTHER RATINGS AVAILABLE--Tell us your needs!

GENERAL ELECTRIC VARIABLE TRANSFORMER, input 120 VAC 60 Hz. Isolated output 0-60 VAC. Maximum current load: 5 amps. Two units wired in series will produce 120 VAC output. Coil not enclosed; dial plate & knob not included. 4.4"dia X 4"H; 6 lbs GE #9T92A1515, NEW, $19.95; 2 for $35

POWERSTAT vari-xformrs, no dials & knobs. USED
#LW136B, 0-30 V 25 amps 60 Hz out from 240/120 V input; enclosed, 12"dia X 8"H, 25 lbs. ~~$75~~ $65.00
#DMLW-136BT-3, motorized 3 X LW136B 3 phase 440/480 V input; 12" dia X 30"H, 90 lbs. $145.00

#VARIAC-1.75A-120V, 1.75 Amps 0-132 V, input 120 V; not enclosed with knob and dial plate. 2.8x2.8x3, 5 lbs $22.95

#5M116BT, 10 Amps 0-140 V, input 120 V, motorized. Enclosed with knob and dial plate. 7.3x7.3x11.5, 25 lbs $62.00

#9T92A28, 18 Amps 0-120/140 V, input 120V, Not enclosed with knob and dial plate. 6.3x6.5x6.5, 19 lbs. UNUSED $95.00

#136B, 20 Amps 0-140 V, input 120 V, Enclosed with knob and dial plate. 7.8x10x6, 27 lbs, $115.00

#1156D, 0-140 V 45 AMPS 7 KVA out; enclosed w/ dial & knob, 80 lbs. USED, $225.00

#GA5065OL 380 HZ VARIABLE TRANSFORMER, input 120 VAC 380/1000Hz; output 0-120 VAC 380/1000 Hz 13 amps. 7x6.2x3.3, 9 lbs. $18.00

+ +

240VAC 60 HZ INPUTS; not enclosed. USED:

VARIAC W20H, 0-240 V 8 A from 120/240 V, $95.

POWERSTAT 1256D, 0-240V 28 amps enclosed with wheel knob and dial plate; 85 lbs sh, $225.00

#1256-NKP, above without knob and dial plate, $195.00

STACO 5020CT, 0-280 V 28 amps enclosed w/ knob and dial plate; 63lbs shipping. 14x17.8x7.8 UNUSED, $275.00

Un-Interuptible Supply

DELTEC MODEL 1820 UN-INTERRUPTIBLE SUPPLY (UPS), provides regulated AC line power during power outages, line fluctuations or fast transients. Input: 120 VAC 32 amps. Output: 120 VAC 15 amps 60 Hz. Utilizes charger-battery-inverter circuit paralleled by AC bypass line. Requires 84 VDC rechargable battery pack (not available). Meters 30-150 VAC & 5-25 amps AC. 14x19 x21, 250 lbs sh. USED-EXCELLENT w/book, ~~$395~~. $265.

UPS SUPPLY produces 120 VAC 60 Hz 500 watt output from 48 VDC input. Rechargeable 8 cell x 6 VDC lead-acid battery pack supplies power when normal power is interrupted. Inverter output is modified squarewave with zero crossing. No further data; batteries functional, but no warranty as to cell life. W/casters; 14.5x12.5x10.3, 100 lbs sh. #UPS-48-500, USED with output, $125. INVERTER SECTION only: #INV-48-500, $99.50

AC Line Conditioners

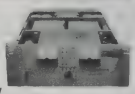
WANG POWER CONDITIONERS, electronic line voltage regulators with full magnetic isolation protects computer & similar equipment from line voltage surge or "sag" damage. Provides "clean" 120 VAC 60 Hz output from inputs of 90 to 135 VAC 60 Hz. Low input shutdown @ 50% of nominal. OVP shutdown @ 12% above max output. 7.8x13x10.4:
#SC-50-PC, 500 VA output with four 3-conductor AC outlets; 36 lbs sh. NEW, ~~$250~~. $150.
#SC-100A-PC, 1000 VA output with one large L5-20R receptacle; 45 lbs sh. NEW, ~~$325~~. $195.

WANG LINE REGULATOR, designed for 120 VAC 500 W constant output for computers from 95-130 VAC 60 Hz inputs. Has two 3-conductor outlets, On- Off switch, and line cord. 7.8x8.5x16, 40 lbs sh. #725-2740, unused,. ~~$195.00~~ $125.00

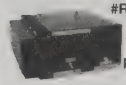
SOLA #63-13-150 C-V HARMONIC NEUTRALIZED REGULATOR, 120 V 60 Hz 500 W output from 95-130 VAC 5 amp input. Two 3-cond outlets & On-Off on front. 6.9x7.8x13.3, 34 lbs. #63-13-150, used $95

GENERAL RADIO 1582A VOLTAGE REGULATOR, automatically compensates for AC Line voltage fluctuations; output 115 VAC +/- 10%; 7.4x19x16, 132 lbs sh.
#GR1582A-AL, 85 amps, 90-110% correction, $275.
#GR1582A-AL2, 42.5 A, 82-124% correction, $265.

Frequency Converters



ELGAR 500 W FREQUENCY CONVERTER uses four 125 watt power amps; voltage, freq & phase digitally programmable. Input 208 VAC 60 Hz; output 300-1000 Hz selectable 0-15/30/130 V (phase A'), 0-40/160 V (phases A, B, C) & tandem A~~O~~+B~~O~~=240 VA @ 115 V. Special Elgar 504 requires 16-bit binary & TTL programming to operate; info not available. 7x 19 x24, 150 lbs. #580-283-047, UNUSED, ~~$495~~ $250.



#RC-FC350 FREQ-CONVERTER, changes 120 VAC 60 Hz input to 120 VAC 400 Hz 350 watt sine wave output. Output adjusts 60 to 140 V. 7x15x15.5, 44 lbs sh. NEW, $400.

PP-7482/G STATIC FREQUENCY CONVERTER, changes 115 V 60 Hz input to 400 Hz output 1 phase 1000 watts. Internal pots adjust output voltage and freq. Rockwell #622-3861-001; 19x5.5x 19.5, 55 lbs sh. USED, AS-IS "non-working", $199.

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

Handcrank Generator

HANDCRANK MAGNETO GENERATOR from telephone equipment; features long crank with shaft extending 2.5" from generator and mount plate that allows left or right side or bottom mount. Replace "dead" generator in antique phone or as remote bell ringer or "worm shocker"; 4 lbs sh. #MAG-GEN-1085, used, $15.95

GN-38A HANDCRANK GENERATOR, similar to above with horseshoe magnets but has shorter fold-up GC-9 crank. Used in EE-8 and other older military phone equip. 4"Lx 2.5" dia: 4 lbs sh. USED, $17.00

HANDCRANK GENERATOR from CRT-3 Gibson Girl transmitter; GC-18 crank turns 6"x 5.5" reduction gearhead turns 4.5"L x3" dia generator with outputs 28 VDC 175 MA & 300 VDC 40 MA. 8 lbs sh. #GN/CRT3, used, $29.50

RECTIFIERS

FULL WAVE BRIDGES:
#KBPC6005, 50V 6 amps, used, $1.00
#KBH25005, 50V 25 amps, used $1.35

DIODES: 1 AMP 50 PIV 20/$1. 400 PIV 15/$1.
1000 PIV 10 for $1.00 MR752 6 AMP 200 V $1.10
MR754, 400 V, $1.25 1N21 RF diode, $1.50
1N23 RF diode, $2.50 1N3890 12 A 100 V, 4/$3.
1N1184, 35 A 100 V; Used, $1.00

#D18937300-R, 100 piv 150 a, 4" pigtail, reverse $4.25
#D-R610-0230, 200 PIV 300 A; 4" tail. Used, $8.95
#SCR-135048Y, 1300 PIV 500 A; 7" tail. USED, $15.00

MOTOROLA MR1265FL RECTIFIER rated 300 PIV 650 amp; with hardware. 3.3x 2.3x3.3, 3#. NEW, $17.50

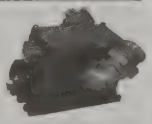
HIGH VOLTAGE DIODE 3 PHASE "Y" BRIDGE from 2000 VDC power supply; six submodules each with ten 1N1095 diodes & 5 capacitors series-parallel. 3.3x2.3x3.7, 2 lbs. #1540/ARC-58, $6.00

- - - - - - - TRANSISTORS - - - - - - -

2N6292 NPN TRANSISTOR, 2 A 70 V; TO220AB 2/$1
2N6675 NPN switchmax 10 A 400 V; TO-3, $4.50
LM117K, 1.2-37 V 1.5 A out; 0.03% load reg. $10.00

DC Supressor

MX-7777B SUPPRESSOR protects vehicule radios VRC-12, VRC-53/64 & GRC-106 from damage by voltage transients. Input 28 VDC; output < 36 VDC. Has 50 amp circuit breakers for Overload & Short; diode overheat protection & manual (BATTLE) override. 5.3x7.3x6.8. 7 lbs shipping. USED, $17.50
PLUGS (2) for MX7777; #29935-2P, used, $4 ea
PLUGS (1) for MX7777; 4 pin female, used, $4.50



Diode Heatsink Assembly

DIODE HEATSINK ASSEMBLY, six 1N3085 100 PIV 150 amp diodes on 1.9x9.3x4.8 heatsink, 4 lbs. #DHS6-3085, used, $21.95
#DHS6-1815, with six MR-1815-SL 300 PIV 100 amp diodes; heatsink 2.6x9.4x4.8, 4 lbs sh. $29.95

SILICON CONTROL RECTIFIER assembly single phase half-wave; GE #C1411CX5 or equivalent. Rating approx 500 V 35 amps. 7x6.3x5, 4 lbs shipping. #KS-19576L1, USED, $6.95

HEATSINKS

#HS-10169 HEATSINK, 6"Lx3.5"Wx1"H; drilled three 7/16" dia holes for diodes, 2 lbs sh. $2.50

#HS5451-F, 5"Lx4.5"Wx1.1"H with flat back for easy mount; two 7/16" dia holes. UNUSED, $2.50

#DHS4525 DUAL HEATSINK STACK, each 4.5x2.5x1 with TO-3 transistor; 3 lbs. Used, $2.00

#2T34513, 3x4.5x1.3 for two TO-36, $1.25 ea

#WE-H1D HEATSINK w/diode approx 100 piv 25amp; 5x3x1.3, 1 lb. USED, $2.50

#3D528-8 HEATSINK, 5x3x1.6; drilled for 3 large stud rectifiers (1" dia recesses), $2.00

#THS-88, 2.5x3x1 finned area and 2.1x1.5" flange for TO-3, $.85

WAKEFIELD SERIES 680, 1.8" sq X 1"H: #680-1.0-GG55, for 0.33" dia diode. $1.25

DC FANS

Mini BOXER 12 VDC FAN, 0.13 amp; 3.6" sq X 1". #3610NL, NEW, $10.00

PANAFLO MINIATURE 12 VDC FAN 2.3" sq. #FBP-068-12L, NEW, $7.95

PAPST #3214F 18 VDC 2 w / 30 VDC 3 W FAN 9-blades; 3.5" square X 1" deep. NEW, $9.00

CENTAUR 24 VDC AXIAL FAN, 11 watts but operates well at 12 VDC. 4.8" square metal frame with 5-blade plastic fan; 1.5" thick, 2 lbs sh. #CNDC24K4-601, NEW, 8.95

Hupp Vehicle Fan

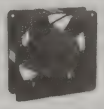
12 VDC HUPP FAN with oscillating grill designed for use in cars, trucks, buses, RV's, etc where "extra" air movement is desired. Plugs into vehicle cigarette lighter and mounts on dashboard or other flat surface. White plastic enclosure has black grill and pivots on mount to adjust angle. Includes 4 ft cord and brackets. 5x9x3.4, 4 lbs shipping. #HUPP-200-14, NEW, $12.00

AC FANS

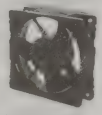
TORIN TA300 3.1" sq X 1.6"D 7-blade mini-fan in metal housing; 115 VAC 50/60 Hz, 2 lb NEW, $10.95

5-BLADE COOLING FAN removed from military power supply; 4.3" dia rotation. 115 VAC 3300 RPM; with capacitor. 2.8"D. #FAN-2054, used, $3.50

5-BLADE COOLING FAN, 4.6" dia rotation; no enclosure. Mounting bracket hole centers 5.9" apart. 115 VAC 60 Hz. 2 lbs shipping. Airtrol #11-2100, NEW, $4.95



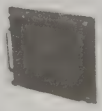
AXIAL FANS, 4.8" sq X 1.5" thick; 115 V 60 Hz. Removed from used equipment:



3-BLADE Rotron MUFFIN or =; 14 W, $6.00
5-BLADE in metal frame; 18 W. Various mfg. $8.95

6" DIA AXIAL FAN 115 V 60 Hz 200 CFM; 5-blade in 6x6.8x1.5 metal frame; 3 lbs. USED, $7.95

5-BLADE FAN, 6.8" dia mounted in 9.5x 11.3 aluminum frame with 8x8 removable filter. Motor 105/ 125 VAC 50/60 Hz 1/40 HP 3350 RPM; requires 4 mf 330 VAC capacitor (not supplied). 5.3"D behind panel, 10 lbs. #B201/MD141, USED, $9.95



ROTRON TARZAN FAN, 6.8" square X 4" D plastic frame fan moves 340 CFM of air from 115 V 50-60 Hz 85 watt input; 5 lbs shipping. #TN3A2, used-clean, $19.95

6 FAN PANEL

17.3"W X 10.5" panel frame has six high output Torin TA450S (or =) 4.6" square 5-blade metal-framed fans. Each fan rated 65 CFM and requires 115 VAC 50-60 Hz 0.11 amps; 12 lbs shipping. #6F-PNL, used-excellent, ~~$45.00~~ $39.50

BLOWERS

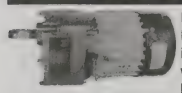
T-368 BLOWER, 120 V 0.45 A 60 Hz; motor 1/40 HP 3400 RPM. Outlet 2.25" inlet 2.5" dia. Mounted on R/A bracket with 2.75 mf 330 V capacitor. Blower o/a 6" dia x 7.5", 10 lbs. #B2/T368, used, $20.

DUAL 220 VAC BLOWER 1/8 HP 3450 RPM; about 450 CFM. Removable frame; 6.5x29x7.5, 40 lbs. #URC683-KP, used, $15.

FAN-TYPE BLOWER, 115 V 60 Hz 20 watts; 4" plastic fan blades. Open frame low noise motor in metal casement-type frame. Approximately 100 CFM. 13x5x2, 5 lbs shipping. Howard #1075-3102, used, $4.50

VISIT OUR WEBSITE AT FAIRRADIO.COM

AC MOTORS



BODINE AC GEARHEAD MOTOR 200 RPM 1/7 HP 35 in/lb torque, counter-clockwise rotation; 115 VAC 60 Hz input. Shaft 1.3"Lx 5/8"dia w/ 3/16" square key. O/a 8.5"Lx5.6" dia; 14 lbs sh. #ECCI-35E200, used, $28.95

240 RPM 115 V 60 Hz GEAR MOTOR for intermittent use; starts @ 32 V approx 200 RPM. Increased volts increases torque. Gearhead extends 2.8" beyond motor; 1.1"Lx1/4" dia shaft. Motor 2.8x2.8x2.4 + 5/8"x3/16" dia shaft for fan on rear, 3 lbs sh. #MOL-2460, unused, $5.95

GENERAL ELECTRIC REVERSIBLE FAN MOTOR, ball-bearing 115 VAC 60 Hz 1 amp 225 RPM motor. Use with fan blades unless cooled by other means. Has mount flanges and 5 mf capacitor; 4.5"Lx5.5" dia + 1.5"L x5/8" dia hollow shaft, 11 lb #5KCP39EGH210, new, $12

PRINTER MOTOR ASSEMBLY, 24 VAC 60 Hz geared to about 4 RPM; can be wired for clockwise or CCW rotation. 2.8x2.5" dia motor on 3.8" sq metal plate; 2#. #MIZ-M0375R, used, $3.95; 3 for $10.

GM-4 MOTOR ASSEMBLY, geared motor in frame with shaft between 3.5" dia sprockets, 3.5" apart. Motor rated 24 V 400 Hz but can operate from 24 V 60 Hz @ 20 RPM when used with 4 mf capacitor. Higher capacitance increases speed & torque. Stainless steel frame is removable; 7.3x5.3x2.8, 10 lb #GM4-AM-MO, used, $9.95

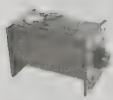
115 V AC-DC MOTOR, starts at 25 VDC, runs CW approx 7000 RPM 1/8 HP. 2.3x3x4.5 + 1.5"Lx0.4" dia spiraled shaft; 3 lbs sh. #AC-DC-H02, $3.00

DC MOTORS

AUTOROL MODEL 200 TIMING MOTOR, 5.4 VDC 19.9 RPM; draws about 100 MA with good torque. Shaft 3/8"Lx1/8" dia with flat; o/a 2.5":x1.8" dia. 1 lb. #200-266A, NEW, $4.75

ROWE 6-12 VDC GEAR MOTOR, 40-75 RPM; good for small scale animation projects. Draws approx 250 MA loaded. Shaft 3/8"Lx1/8" dia w/ flat. O/a 2.5"Lx 1.4" dia. 1 lb. #500-6-12, NEW $4.50

DC MOTOR, operates over 10-15 VDC 100 ma 2375-2425 RPM with governor. Shaft 5/16"L x 1/16" dia; o/a 2.9 x 1.1. #AST-GK26 $7.95



DUNRITE 12 VDC PERMAMENT MAGNET 1/4 HP MOTOR, 5300 RPM cont-duty; 12 inch-lbs of torque. shaft 7/8"L x 5/8" dia both ends w/ pinned gears. 4.9x9x4.5, 13 lbs sh. #6294355, NEW, $35.00

BOWMAR/HAROWE 12 VDC DUAL SHAFT MOTOR, 2500 RPM no load; 1 amp 2000 RPM 3.4 oz-in load or 1.8 A 1000 RPM 7.4 oz-in. Stall current 2.5 A. Shaft 1/8" dia. one 1/2"L threaded; other 1/4"L. O/a 2.8"Lx1.3" dia, 1 lb. #1442-009, $8.95

DC MOTORS

MULTI-SPEED 24 VDC PM MOTOR can be wired for 11500 RPM 0.012 HP 0.7 amp or 3000 RPM 0.033 HP 2.3 amp operation; motor starts to turn at 9 VDC and is reversible. 6"x2.3" dia with 3.6" dia collar; geared shaft 0.6x0.4" dia. 3 lbs. SPERRY #2960031, used, $8.95

24 VDC PM MOTOR, will run from 6 to 30 VDC @ approx 200 RPM per 6 V. 5/8" dia shaft is 2"L one end, 5/8"L on other. O/a 10"Lx3.8" dia, 16 lbs. #DH-4000-AD7 (or equal), USED, $39.50
MORE DC PM MOTORS, similar style & size as DH-4000 above; shafts one end. Good for low power wind generation experiments.
"No load" ratings:
#36V-116289, 36 VDC 400 RPM 0.5 A; shaft 2"L, $30
#60V-115810, 60 VDC 900 RPM).5 A; shaft 3"L, $37
#72V-116249, 72 VDC 600 RPM 1 A; shaft 1.8"L, $45

GLOBE 27 VDC MINI-PM MOTOR, p/o Collins 6I8T P-A; splined shaft 1/4"Lx1/8" dia; o/a 1.7"Lx0.9" dia. #41A205, used, $7.50
GLOBE 27 VDC 1/100 HP MOTORS, 2.5"IX1.3" DIA #C-25A686, 11000 RPM, p/o ARC-45, used, $7.95

160 RPM DRIVE UNIT w/ clutch has Globe C-25A512 27 VDC 15000 RPM motor and clutch assembly. Motor operates with good torque over 5 to 27 VDC. 160 RPM output on 3/16" dia x 1/2" lg shaft. O/A 3 1/4x 4 1/4x 3 1/2, 3 lbs. #160DRV/618 used $8.95

JOHN OSTER TYPE C2BP1A SERIES MOTOR, 27 VDC 1/100 HP 7000 RPM. 3"Lx2" dia + 1"L x 1/4" dia shaft; 2 lbs sh. UNUSED, $3.95

27.5 VDC REVERSIBLE PM GEAR MOTOR, 85 RPM no load speed, 1/4 duty cycle; estimated 75 RPM 100 oz/in torque when under load. Shaft 1/2"L x 5/16" dia with ear. O/a 4x1.3x1.3, 1 lb. GLOBE #5A1231, used, $14.95

15 DEGREE STEPPER MOTOR from printer; requires +9 to +40 VDC. High speed & performance w/ driver circuit info. 1x1.3" dia shaft; o/a 5.8"x1.6" dia, 2 lbs shipping.
#RBM-2-62, 2 ohm field, $12.50
#RBM-4-62, 4 ohm $15.00
#RBM-6-62, 5.8 ohm $17.00

15 degree 4-PHASE VR STEP SERVO, 5 ohms 1.5 A; 28 VDC input pulse 3/4x 1/4" dia shaft; o/a 3x3 1/4x3, 2 lbs. sh. Made in Canada; removed from equipment. #20M34C1, $9.95

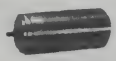
Selsyns & Synchros

AY-201S-2B SELSYN TRANSMITTER, size 15 26 V 400 Hz input; output 11.8 V. Shaft 0.1" dia X 0.5"L; o/a 2.1"Lx1.4" dia. NEW, $17.50

1HCT-MKII CONTROL TRANSFORMER 90/55 V 60 Hz; 3.6"Lx2" dia. 2 lbs. sh. USED, $20.00
15CX4 CONTROL XMITTER 115 V 400 Hz , used $5.
23CT6 TRANSFORMER 90/1V / degree 60 Hz, $12.
23TR4 RECEIVER, 115 VAC 400Hz, used $10.00

2J1H1 SELSYN DIFFERENTIAL GENERATOR operates @ 57.5/57.5 V 400 Hz or @ 26 V 60 Hz. 4.3"Lx2.3" dia, 1 lb. USED-less connector caps, $7.00

SPERRY R5663478 SYNCHRO REPEATER PAIR, operable on 24 V 60 Hz; each 3"Lx2.5" dia + 3/4"Lx1/8" dia shaft. USED, $30.00 per pair.



TACHOMETER GENERATOR, motor 265 V 400 Hz 2 phase: generator 18 V 400 Hz 0.3V/1000 RPM. No load speed 10000 RPM. 2 1/8"Lx1" dia 3/16"Lx1/8" dia shaft. #TACH-SEL-MOD, $7.95

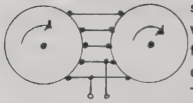
PHASE SHIFTER, unsymetrical resolver; rotor 1 phase 5 V 30 Hz. stator 2 phase 5 V 30 Hz. 1.4" dia x 2"L. #PS-17-E-1, used, $10.00

+ +

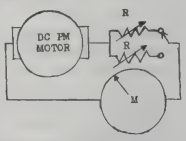
UNITED STATES NAVY SYNCHROS, Description and Operation, a copy of Publication #OP 1303 printed April 1958; 100 + page primer about selsyn/synchro theory and types. $12.50

+ +

WIND DIRECTION INDICATOR using 26 V 400 Hz selsyns. Design your wind vane and indicator for monitoring wind direction from indoors. Two selsyns required for project; 2 lbs sh. #WIND-SEL, used, $9.95 each



WIND SPEED INDICATOR using a 24 VDC PM motor as a generator, a 1 mil-liammeter and a resistor range scaler so that wind speed can be monitored indoors. We will supply the PM motor and a 3 1/2" round me-ter; you design the rest; 2 lbs sh #WS-MOTOR & METER, $9.95
AY-1 AUTOSYN as used in I-81/ I-82 indicators; $7.50



Compass Indicators

3" DIA 0-360 deg-ree RADIO COMPASS INDICATOR, adaptable for wind direction & antenna position use; 5 degree increments, 2#. #I-81, used, $13. #ID-91/ARN, 2 deg incremt, $16.

SPERRY MARINE INDICATOR MARK XX MOD.2, part of shipboard gyrocompass repeater. Has 8" dia 360 degree scale in 1° increments under glass; uses two Size-5 115 VAC 60 Hz selsyn transmitters. One drives inner directional indicator; second outer degree scale. With 7 ft cable & special connector; 10" dia X 8.5"D; 36 lbs. UNUSED, $185.00

BENDIX IN-4D LEFT-RIGHT INDICATOR, 3" dia WW-2 vintage instrument shows wing-tip position relative to ground; requires 24 VDC. 2 lbs. $15.00

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

HV CAPACITORS

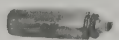
ENERGY STORAGE CAPACITORS Non-PCB, removed from equipment; 10"H x 4.5"Wx3.5"D, 10 lbs:
32 MF 4500 VDC, $30.00
88 MF 1200 VDC $17.50

8 MFD 4000 VDC case ground; 8.3x3.5x2, 7 lbs. $10.00

41 MFD 2.25KV DC, 3.8 x 4.6 x 7, 7 lbs. UNUSED, $20.00

2 x 5 MF 3 KV DC, 4.5x5.5x3.5, 6 lbs. UNUSED, $12.50

+ + + + + + + + + +

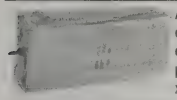


SPRAGUE JX FILTER
0.1 mf 2500 VDC; 4x1. #S3312, $2.
0.1 MF 3500 V C-D mfg $2.50

+ + + + + + + + + + + + + + + + + + + +

NON-PCB DC CAPACITORS 1 MFD 2000 VDC, 2.4x4.2x1, 1 lb NEW $4.50

.01 MF 100KV Cap.



A high voltage experimenter's dream! A compact 5"x10" x2.5" 0.01 MF 100,000 VDC capacitor removed from an exotic government project which used 100 of these in series! Nov '83 date codes; 1"L #12 stud ends, 7 lbs sh. #KM14-1000-10, $87.50

RF CAPACITORS

CENTRALAB 850- TYPE "doorknob" capacitors, 0.5"H x0.8" di; USED, $6
SPECIFY:
30, 50, 75 pf (7.5 KV)
100, 120, 140 pf (5 KV)

- -

TYPE 858: 1000 pf 5 KV, $8.00

TYPE 857: 15 KV, 40 or 50 pf $10.00

- -

0.004 MF 20 KV, 2.4" dia X 0.6" H. #N4700, NEW, $17.

BROWN MICA

JAN CM-size 1.8" x1.6". USED, $1.25:

MFD	WVDC	CM
.02	600	55
.033	600	55
.005	1200	55
.012	1200	55
.0004	2500	60
.00022	3500	55

+ + + + + + + + + + + + + + + + + + + +

CM55 .001 MF 2500 WV, $2.
CM65 .0062 2500 $3.50
.002 3750 $5.

+ + + + + + + + + + + +

F1L-size MICA, 2.8x1.5x1: 0.006 mf 2500 WVDC, $4.00
0.0001 mf 3000 WVDC, $4.00
0.00013 mf 5000 WVDC, $4.50

F3L 0.007 mf 500 VAC, $7.50

Computer Grade

MFD	Volts	Size	Price
23000	7	5.5x1.5	$.60
100000	10	5.5x3	2.25
150000	10	6x3	4.00
28000	15	4.5x2	1.50
5200	20	3.5x1.4	.75
58000	20	6x3	1.60
43000	30	4.5x3	2.50
37500	35	6x3	3.25
19000	40	4.5x2.5	2.50
48000	40	6x3	3.50
120000	40	9x3	10.00
4900	50	3.5x1.5	2.00
10000	50	4.5x2.5	3.00
3500	55	4x3	1.50
14000	75	6x3	4.25
1250	180	4.5x2.5	2.00
500	200	4x2	1.65
360	250	2.3x2	1.75
10000	300	9x3	20.00

Buy 5 or more one type - take 20% off

- - - - - - - - - - - - - - - - -

CLAMP for computer grades:
2.0" dia, $.65 ea. 2.5", $.75

Electrolytic/Paper

Electrolytic (E)/ Paper (P)	
2500 mf 3 V (E) 3.5x1	6/$1.
6800 mf 16 V axial,	4/$1.
10 mf 30 V axial tant	3/$1.
4.7 mf 35 V drop tant	3/$1.
1000 mf 35 V axial,	3/$l.
500 mf 50 V axial,	3/$1.
1500 mf 63 V axial,	2/$1.
250 mf 150 V axial,	2/$l.
3x20 mf 3x250 V (P)	$.80
0.33 mf 300 V metalized	$.65
100 mf 350V axial,	$2.95
0.33 mf 400 V mylar,	2/$1.
2 mf 400 V metalized,	$1.25
30-10-150-30 mf 500-450-50-50 VDC, 3"Hx1.5" dia (e),	$2.
0.01 mf 630 V mylar,	4/$1.
0.022 mf 1600 V plastic,	2/$1.

+ + + + + + + + + + + + + + + + + + + +

1KV DISCS: 100pf or 200pf, 7/$1 l00/$9

+ + + + + + + + + + + + + + + + + + + +

DIPPED MICA CAPS, +/10% 100 v;
3/$1. pf: 18 22 27 33
82 150 220 470.
2 f/ $1. pf: 750 1000 1200
* 1800 pf 300 v. $.85 EACH *

+ + + + + + + + + + + + + + + + + + + +

ERIE 1202 SUPPRESSION CAPS,1 KV used:1000 pf $.75; 7000 pf $1. ea

Transmitting Mica

G-SERIES TRANSMITTING CAPACITORS, used-good or unused as available.

G-1-type, 2.3"H x 2.8" dia; 3 lb $7.50

KV	MFD	KV	MFD
1.0	0.04	6.0	0.0002
1.5	0.08	6.0	0.00024

G2, 3.5"HX3" dia, ~~$18.50~~ $12.00

KV	MFD	KV	MFD
2.0	0.03	l0.0	0.0002
		20.0	0.00005

G3, 4"H x5" dia, ~~$27.50~~ $18.00

KV	MFD	KV	MFD
2.5	0.15	10.0	0.00015

G4, 5.5"Hx 5" dia. 8 lbs. $32.00

KV	MFD
4.0	0.084

AC CAPACITORS

7.5 mf 260 V, 2.8x2x1.3,	$2.00
10 mf 370 V, 2.8x3x1.8; 2	$3.00
20 mf 330 V, 2.8x5x1.8; 3	$4.00
50 mf 370 V, 10x3.5x1.9; 4	$8.00
10 mf 440 V, 4x2.8x1.8;	$3.50
35 mf 440 V 9x3.5x1.8; 4	$7.00
5 mf 600 V, 4.5x2x1.3,	$3.00
8 mf 660 V, 3.9x2x1.3,	$4.00
27 mf 700 V, 9.3x4.3x2.7, 8 lb	$7.50
5 mf 1000 V pk 2.8x6x2	$3.50

MOTOR-START CAPACITOR 43 mfd 330 VAC plastic enclosed electrolytic; 4.4x2" dia, 1 lb. #MSP-77725, $2.25

Vacuum Capacitors

JENNINGS CSV1-500-5 VACUUM CAPACITOR, 5 to 500 pf 5 KV peak; 3/8"L x 1/4" dia tune shaft. Built-in mount flange; overall 5.8"L x 2.3" dia, 5 lb UNUSED, $220

- -

VACUUM VARIABLE CAPACITORS, removed from equipment & tested. Jennings or equal mfg.
#CVA-7-5, 3.5-7 pf 35 KV 4.3"Lx3" dia, 5 lbs sh. UNUSED, $55.00

#USLS-465-5, 7-465 of 5 KV; for 1/4" dia shaft. 5.5x2.3, 4 lb used $185

#EL-1000-5, 7-1000 pf 5 KV; 7.8"L x3" dia, 5 lbs sh. USED, ~~$165~~. $145.

#UCSL-1000-3 (glass), marked "3 KV" but tested to 5 KV; 4 lb used, $150.00

- -

VACUUM VARIABLE CAPACITOR assembly with UCSL-1000-3 7-1000 pf 3 KV vacuum variable and 28 VDC drive motor & gear assembly. Runs on 6 VDC up. 8x6.8x3, 7 lb #C501/180L, used $74.

- -

FIXED VACUUM CAPACITORS

various mfg; used:
CY-3-25, 3 pf 25 KV cer. ;3.3"Lx0.8" $12
JCS-2A-10, 25 pf 10 KV, 2.6Lx1.5 $15
VC-12-20, 12 pf 20KV; 6.5Lx2.8 $14
CFEA-150-7 150 pf 7.5 kv; 3.3Lx2.3 $75

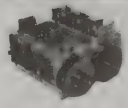
AIR VARIABLE

TUNING CAPACITOR f/RT-176/PRC-10, 38 TO 54.9 Mhz; 5-gang, 5-33 pf/ gang. With 1 1/4" and 5/8" dia. gears; 3/16" dia shaft. 1.5x1.6x4, UNUSED, $6.95

#4G535, 4-gang 20-535 pf per gang 500 V; shaft 0.3"L x0.3" dia. O/a 1.9x6.8x3.3, 3 lbs. used, $15.00

AO-105 OSCILLATOR, has precision 21-220 pf air capacitor w/ right angle drive, 4-55 pf trimmer, 100 KHz xtal & oven, feed-thru caps three 1000 pf & and 2000 pf. Tubes 6AB4, 6AH6, 12AU7. P/o TMC xmitter master oscillator; pictured without cover. O/a 8x8.6x11, 19# used $17

AIR VARIABLE



TUNING CAPACITOR ASSY for RT-66-67-68 xmitters; 6 sections: four 8-64 pf two 8-55 pf. Also six 4-23 pf trimmers. Dual geared 3/8" dia shafts; o/a 4.8x4.8x3, 3 lbs. #3D9067E6, unused, $15.

SINGLE GANG 8-26 pf 0.06" air gap; 2.8" disc removes for 0.5"L x 1/4" dia shaft. W /four 1.8"H insulators. Capacitor 1.5x2.8x3.1 o/a #T7660443-8, used, $6

SINGLE 12 - 475 pf 0.02" air gap; vertical mount. Shaft 0.4"Lx 1/4" dia. o/a 3.8x2.4x2.5, Used: #C123/URM25, $9.00

MINI-VARIABLE, 10-220 pf w/ 0.5"L x 3/16" dia shaft; o/a 1x1.3x1.1. #1800-07, $3.50

3-GANG 25-600 pf/gang; gap 0.02". Shft 1/4"Lx1/4" dia; o/a 1.9x5.8x3.3. #3G-600, $14.00

BC-624 RECEIVER RF TUNER for 100-156 MHz AM; with variable capacitors, coils, etc. P/o SCR-522 5x5x5, 7 lbs shipping. #2ZK11150, used, $6

RECEIVER-TYPE VARIABLE CAPACITORS, multi-section with 500 Volt or less spacing.

- - - - - - - - - - - - - - - - -

#SC-577, 3-GANG 40-450 pf/ gang; shaft 0.3"L x 1/4" dia. o/a 1.4x2.8x1.4. USED $9.50

#NR-2045, 2-gang 10--45 pf/ section; 1"Lx3/8" dia shaft has 3.1i dia dial cord wheel. 1.5x3.4x1.8. unused, $3.75

3-GANG, 20-540 PF per gang; 500 V-peak. Shaft 3/4"L 1/4" dia; o/a 4x1.5 x2, 1 lb #ASP-074-048 new $10

#3D9402V, 5-gang 13-402 pf per gang 500 V; shaft 1.3"L x0.4" dia. 2.8x7.3x3.8; 3 lbs shipping. UNUSED, $16.95

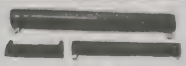
- -TRIMMER CAPACITORS - -

with screwdrive adjust shafts:
#C653/R174, 2-11 pf, $.50
#C103/382, 4-23 pf, $.75
#SBL72265-2, 8-32 pf, $.75
#CT1C075, 6-75 pf, $1.25
#C104/382, 9-100 pf, $1.50

#366-840, 7-25 pf 0.1" minimum gap, screwdriver adust; 1.9x1x1.6. $1.95

VISIT OUR WEBSITE AT FAIRRADIO.COM

RESISTORS



5/10 W, $.25: 20/25W $.35
5 WATT: ohms I0, 350, 500, 2K, 5K, 7.5K, 15K
10 WATT: 0.33, 2, 10, 84, 1K, 2K, 3.5K, 5K
20 WATT: 200, 630,
25 WATT: 0.33, 1K, 2K

+ + + + + + + + + + + + + + + +

1.67 OHM	35 WATT, flat,	$.75
2.5 OHM	50 WATT,	$1.00
10 OHM	31 W, Dale 5%,	$.60
15 OHM	95 W, Dale 5%,	$1.00
20 OHM	47 W, flat, used	$.65
22 OHM	53 W, Dale 5%,	$.85
25 OHM	50 WATT,	$.75
1300 OHM	53 W flat-used	$.65
1600 OHM	43 WATT,	$.75
2000 OHM	43 WATT,	$.75
3000 OHM	68 WATT,	$1.00
4000 OHM	50 WATT,	$.85
100K OHM	95 W; flat Used,	$3
40M OHM	2.5"L x .6" dia	$5
80M OHM	6.5"L x .6" dia.	$7

+ + + + + + + + + + + + + + + +

OHM	WATT	L x Dia	PRICE
200	100	6.3"x0.8"	$1.25
750	100	6.5"x1.3"	$1.25
25	225	10.5" x1.6"	$3.50

+ + + + + + + + + + + + + + + +

FERRULE CLIP-ON MOUNT:

2.5M	2.5	5.4"x1.4"	$2.50
800	90	7.5"L x1"	$1.50
35K	90	non-induct	$3.00
11	140	11.5"x1.2"	$2.00
82	203	11.5"x1.2"	$2.50

Precision Resistors

DALE (or =) POWER RESISTORS metal-type:

OHMS	WATT		PRICE
I.96	30	1%	$2.00
39	15	1%	$1.00
43	250	3%	$4.50
50	20	3%	$1.25
250	50	5%	$2.00
710	20	3%	$1.25
1400	120	1%	$3.50
2500	25	1%	$1.25
3000	25	1%	$1.25

+ + + + + + + + + + + + + + + +

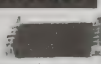
most +/-1%; $.30 EA

1.5 ohm	3.0 w	+/- 5%
5 ohm	0.33	watt
90 ohm	0.50	watt
600 ohm	0.25	watt
4K ohm	0.50	watt
10K ohm	0.50	watt
30K ohm	0.33	watt
58K ohm	0.50	watt
330K ohm	0.50	watt
I.04M ohm	0.33	watt

- - - - - - - - - - - - - - - - - - - -

0.33	3	1%	$.50
3000	2	1%	$.50
5IK	0.5	0.1%	$.40
902K	2	1%	$.75
1 MEG	15	5%	$3.00
I0 MEG	20	3%	$5.00

RESISTOR BANK



DALE 70 WATT 5%
6- RESISTOR BANK, two ea 4 & 7 ohm. one ea 6 & 8 ohm; 6"L x 3" H. #R6X70W, $4.50

Slide Resistors

with variable slide adjust:

2 OHM	25 WATT,	$1.00
4 OHM	25 W + 4 fixed	$.75
20 OHM	25 WATT,	$1.00
30 OHM	200 WATT,	$3.00
50 OHM	50 WATT,	$1.35
50 OHM	160 WATT,	$2.50
100 OHM	150 WATT,	$2.50
250 OHM	100 WATT,	$2.25
250 OHM	200 WATT,	$3.00
500 OHM	160 WATT,	$2.50
1000 OHM	125 WATT,	$3.50

+ + + + + + + + + + + + + + + +

WARD LEONARD ENCLOSED 40 OHM 300 W vari-resistor; 600 V max. Fits 0.5" dia shft. 3H x 6.5 #2130-40 $14

+ + + + + + + + + + + + + + + +

PRECISION RESISTORS KIT, 25 asst. Carbon or wire-wound 1% $1.50/ kit

RHEOSTATS

First set of numbers after RHEO-prefix is wattage; your choice of ohms is second set. SCD= screwdriver adjust type. Style varies;

USED or UNUSED:
#RHEO-25W (ohms), $1.50 ea
6-scd, 7, 35-scd, 60-scd, 75, 200-scd, 250, 350, 400, 500, 600-scd, 800, 1500, 2500-scd, 3K, 20K
DUALS $2.75: 100/500

#RHEO-50W (ohms), $2.25 ea
5, 8, 16, 18, 30, 35, 100, 200, 225, 300, 375, 2500
DUALS, $4.00 ea: 16, 20, 35, 80

DUAL 50/25 W 800/500, $4.
#RHEO-100W- 20, 100, 2K, $4
#RHEO-150W 2 ohm, ~~$5~~ $3.50
-150W 15, 35, 350, 750, $5
#RHEO-225W- 3 ohm, $4
#RHEO-300W- 3, 50 , 3 lbs $8
#RHEO-500W 3 ohm, 6#, $13.

POTENTIOMETERS

ALPS or = with switch; 5/8" dia + term. Shaft 1/4" dia: 10K, 50K or 100K, $1 ea

BOURNS #3852Z-750K, $1 ea

CENTRALAB #WN-100-10. 10 ohms linear taper, $.75 ea

CLAROSTAT #RV4NAYSJ503, 2 WATT 50k ohm; shaft 1.5Lx1/4 dia. NEW 2/$1

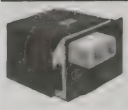
10-TURN PRECISION POTS, 1/4" dia shafts: #A-R100-L25, 100 ohm 2.8"Hx1.8"dia. $6.95

#SA1400 30K ohms; 0.1%. USED $3.50
#731A-R50K-L.5, 3-turn 50K ohm 5%; 2"Hx1.8", NEW. $6.
#RB-DUODIAL, 10-turn vernier for Helipot's*, used $6.

#3441H 10K OHM POT, 6-turn counter dial; 1.9"Lx0.8" used $5

OFFSET INDICATORS with 20-turn 20K ohm 0.1% linear pot coupled to geared vernier control; inner dial marked 10-0-10 NAUT MILES (1 turn= 1 mile). Offset shaft size 1/2" x1/4" dia; o/a 3.5x3.5x4.5, 2 lbs. Specify: #E-W (East-West) or #N-S (North-South) OFFSET, used, $4.95

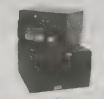
Cases & Enclosures



ALUMINUM ENCLOSURE & frame from antenna coupler. Adapt as-is or rework; 7.5"Hx10"Wx 10"D + removable 4.5"x2.5x3"D front ant-insulator. Cut-outs for 1.8" meter & two connectors. 8 lbs sh. #ENC/180L3, used, $7

ALUMINUM ENCLOSURE with black crinkle finish. Removeable front face with handle. Has a multi-pin connector along with 4 small pin jacks on front face. 8"Dx5.8"Wx4.3"H, 5lbs used, $10.00

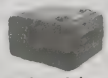
STEEL ENCLOSURE with metal feet and hasp fastners. 6.5"Hx9.3"W x5"D; 5 lbs sh. USED. #ENC-RM-39, $3 ea; 2/$5.



Original electronics removed making these "ripe" for your projects! Black aluminum with handles; no chassis.

#IFPC-ENC, 0.1" thick front panel has 2x24 2.3"H ventilating slots; rear has four 3"dia holes for fans. 7.8"hx12.8"wx12.8"d, 11 lb $19.95

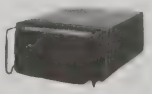
#CAP-ENC, lighter gauge than above; box has no cuts. 7.8"x10"wx11"d with 10x13 bottom mount plate; 6 lb $17.95



ALUMINUM CASE with rounded corners; sturdy and compact, it has single 9.3x10x5.8 compartment, hasp fastners and canvas strap. 6 lbs sh. #CS-TA182, used, $10.

TEST SET CASE o/a 9"Wx8.4"Hx9"D aluminum box includes 3.8"H cover with storage compartment. Also hasp fastners (not hinged), carrying handle & rubber feet; Cover may have slight split at corner; 5 lbs sh. #CS-3797, unused, $9.95

INSTRUMENT CABINET for HP-test set; adapt to other uses. 7.6"H x 19"Wx9"D + 4"D cover less 1" overlap; three 6"Hx5"W compartments; w/fastners & strap; 17 lbs sh. #CS-HP3550, used, $27.



ALUMINUM CASE & CHASSIS 8"Hx 15.5"Wx23"D (20"D behind panel). Some cut-outs on the front; usable for antenna tuner or other project. 20 lbs. #CS-ARC-38A, USED, $15

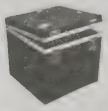
SMALL ALUMINUM ENCLOSURE, with no holes. Cover removeable. Seamless. 3.6 x3.6x3.3. SC-1, unused, $5

Large Cases

LARGE ALUMINUM TRANSIT CASE with rounded corners, hasp fastners & carrying handles; 20.8"Hx28"Wx17"D including 6"H top. Spot welded compartments + 2 nesting trays; 66 lbs. #CY-3700/PRC-47, used, ~~$35.~~ $28.

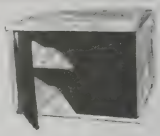
#CY-7542/PRC-104 FIBERGLASS CASE designed to protect PRC-104 backpack radio in foam insert (Insert can be cut out). Measures 15.3"Hx22"W x14.5"D with hasp fastners, side handles & pressure release button. 30 lbs. shipping. UNUSED, $35.00

#CS-URM64A CASE, o/a 16.7x20.8 x13.5; space without removal of spacers 13x17.5x14. Not hinged; w/ hasp fastners & handles. Aluminum-clad wood; 36 lbs. $16.



FIBERBOARD CASE with reinforced steel corners; black vinyl covered. Hinged with two twist-locking hasp fastners. Foam lined 12.x12.5x11 large compartment plus 3 smaller ones; o/a 18.5x 18.5 x17.5"H, 20 lbs sh. #CS-FIB1818, used, $17.50

Video Storage Cabinet



Clean, new, and "stackable" units look good in the home as well as the office. Dark plexiglass doors with magnetic latches attractively "hide" contents. Constructed of off-white vinyl-covered 3/4" particle board; shipped unassembled with adjustable shelf, casters, and hardware. Pre-drilled for assembly using screwdriver & hammer. Made for Xerox; 31"W x22"H x26"D, 100 lbs shipping, (UPS shipping OK!) #0136790,
NEW, ~~$65~~ $45 ea; 3 for ~~$175~~ $125

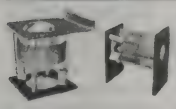
Double Rack

DOUBLE RACK EQUIPMENT CABINET w/ rear doors, castors & two top 10" dia fans. Full panel height each side: 61.5". Blue side panels; steel constucted. O/a 74.5"Hx45"W x 30"D, 300 lbs sh. #2RK-1962, USED, $175.00

#3RK-1962 TRIPLE RACK, similar to above but three racks; 68" wide, 450 lbs sh. USED, $250.00

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

COILS



#L6/RF111 COIL,30 uH; 13 turns #8 silver-plated wire in 6" dia coil. Form notched for 4 more turns; fiberglass ends. O/a 8x7.5x6.5, 4 lbs sh. USED, $9.95

#L5/RF111 COIL, 15 uH; 12 turns #8 wire in 3.75" dia coil 7.3x6.5x4.5, 4 lbs sh wt. USED, ~~$11.00~~ $8.95

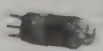
#C-447B coil for BC-610 xmitter with variometer; 4.5"L x 4.5" dia; 3 lbs sh. UNUSED, $12.

Coil without variometers: #C-389A, 4.5-5.7 MC 3.4", $8.

L8 COIL for T-4/FRC 400 W xmitter covering 2-3.5 MC (44 uH) without variometer; 4.5 " dia X 6.5"L plus 9 banana jacks on ceramic strip; 3 lbs sh. #199-6262, UNUSED, $10.

VARIOMETER p/o ART-13 xmitter, 6 turn #12 tinned wire; 3" dia stator, 2.5" dia 7-turn rotor (2-11 uh). Fiberboard end plates; spline drive. O/a 5"Hx 4.5"L x2.5"W. 3 lbs shipping. #L112/ART13, used, $14.95

MO & PA TANK COILS from 10 to 12.5 KHz TU-10 TX tuners. Ceramic coil 5"Lx2" dia on 7"x3.1" mount bracket; #12 wire, 2 lbs sh. USED: #2684/TU10 MO; 2.4 uH, $4.25 #2697/TU10 PA; 1.35 uH, $4.



PLUG-IN RF COIL with adjusting screw for 2.65 to 3.12 MC; fits 5-pin tube socket. 3"Hx1" dia. Coil Winders #CW11-342, unused, $5.95

RF MASTER OSC COILS #T53/6032, p/o T-22/ARC-5 7-9 MHz xmitter; $4.

#L101/ART13, ceramic 2"H x 1.6" dia base. $4.00

TELEPHONE PICK UP COIL p/o modem coupler; no info. 5/8x1.8" dia. #403-4, $l.00

+ + + + + + + + + + + + + + + + + + + +

FERRITE CORE INDUCTORS

PC mount; 7/8x 3/4" dia. #NV243, 123-177 mH, $1.50 #404-3-2, 600 mH, $1.50

Pancake Roller Inductor

7 UH horizontal 9-turn 3.2" to 9" spiral with silver edged 1/2" copper ribbon tracked by roller on rotary arm. Spiral on 10.5"x 11.5"x 0.6" fiberglass deck; part of 10 KW network. 9 lbs shipping. #P-IND-75, used, $37.50

Roller Inductors

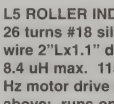
ROLLER INDUCTOR rated 0.1 to 10 uH @ 3 amps; #16 silver-tinned wire forms 2" dia coil. Steatite ends; shaft 3/8"L x 1/4" dia. O/a 4.4"lx3"hx2."w. 3 lb #229-101 used $32

ROLLER INDUCTOR ASSEMBLY f/ 30 W 2-12 MHz power amp; 47-turn #14 wire form 4"Lx2" dia coil (45 uH) Has right angle drive with knob. Mounted below (not shown) are RF xformers. 22 & 82 pf 7500 V mica capacitors. w/ schematic. 6.5X9.5X6, 9#. #I301AM-66, used, ~~$39~~. $32.

ROLLER INDUCTOR ASSEMBLY with 115 VAC 400 Hz motor drive, 3.4" lg x 1.75 dia coil; 28 turns #18 wire approx 14 uH with center tap. Designed to resonate antenna to a transceiver's frequency. 4.5x2.8x3.8 5 lb used #T301/CU-99I, $7.50

Assembly from AM3349/ GRC-106, includes L1 0.5 to 40 uH variable inductor, L2 37 uH fixed inductor, C27 15-355 pf air capacitor, 26/ 1000 pf feed -thru caps, S1 2-deck 5-position ceramic switch and two Globe or = 24 VDC motors. LESS C26 vacuum cap. Cutting of plastic supports required for parts recovery. (See April 98 73 Magazine for project.) 5.5 x 9.5 x 5.5, 10 lb #AL-AM3349-96, used $29.50

PLATE ROLLER INDUCTOR 26 turns #16 silver plated wire 3.7"L x 2" dia coil; 14.5 uH max. 115 VAC 400 HZ motor and 20K ohm multi-turn pot; will run on 26 V 60 Hz. Can be adapted to direct-drive. O/a 6.8x4x5, 3 lb #L13/ARC-58, used $27.95

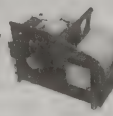


L5 ROLLER INDUCTOR, 26 turns #18 silvered wire 2"Lx1.1" dia coil: 8.4 uH max. 115 V 400 Hz motor drive like above; runs on 26V 60 hz. Adaptable to direct drive. O/a 6x3x4.75, 3 lb #L5/ARC-58, $12

ROLLER INDUCTOR KITS includes 4.4"L x 1.5" dia ceramic coil with 40 turns #14 silvered-wire, roller wheel, guide shaft & springs. 3/8" dia shafts have removeable pinned gear. End support plates not supplied; 3# #L22-PRC-47, 22 uH, $16 #L35-PRC47,35 uh w/ part slug core $15 # L40-PRC47,40 uH w/ full slug core $15

Ribbon Inductors

with motor drive; two 5.4"L x 3.4" dia coils with 288" of drawn silver ribbon (0.125"Wx0.01" Th) wound between; approx 28 uH. Ribbon transferred from coil to coil by 28 VDC motor. P/o Collins 180L3 antenna tuner. O/a 9.3x 5.8x5.8, 10 lbs. #L40l/l80L, used, $19.95



VARIABLE RIBBON INDUCTOR, p/o T-195 2-20 Mhz 100 W xmitter. Two 4.6"L x2.8" dia drums (one slug core) with 3/16" W silvered-ribbon; 30 turn 4" L coil for 160 uH. 26 VDC motor rotates drums transfering ribbon from one drum to the other. O/a 8.3x5.6x6.3; 10 lbs sh. #L1101/T-195, USED, $22.50

Vacuum Relays

JENNINGS RB-1H SPDT 26 VDC 270 ohm coil; 12 KV pk AC/DC 15 amps cont. W/ mount flange; 2.3"Hx1.5"dia, 1 lb USED, $49.50

#RJ1A-26 SPDT 335 ohm; 3.5 KV pk 18 A AC/DC. Max-open/release:8 ms. 1.3"H x0.8" dia, USED, $35.00

SPDT VACUUM RELAY ASSEMBLY antenna transfer relay p/o Collins 180L3 antenna tuner; coil 28 VDC 38 ohms. O/a 5x6 x2..3, 3#. #K712/180L3, used, $20

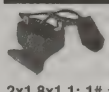
Vacuum Contactors

JENNINGS SPDT CONTACTOR RELAY, rated 1 KW @ 300 MHz, 3 KV test. Actuator 6 VDC. Has 4-pin Cannon power & three SC coax connections. 3.5x3.2 x4, 2 lbs. #RC47R6153M430, NEW, $75.

JENNINGS SPST VACUUM CONTACTOR for 3-1/8" (78 mm) dia hardline coaxial hook-up; rated 25 KW @ 30 MHz; 20 KV peak test; actuator 19-29 VDC. 4x8x3.8, 7 lbs. #RC10A5225A24, unused, ~~$125~~ $99.

JENNINGS SPDT RF CONTACTOR for high power transmit and process equipment. 26.5 VDC actuator switch rated 300 amps @ 2.5 KV peak; pk test 10 KV 60 Hz. Sealed enclosure w/ mount flange; connector not available. 5x 5.3 x9.5, 22 lbs sh. #RF20BLDE8I2I-I, ~~$225~~. $150.

CONTACTORS



CONTACTOR RELAY, 12 VDC coil & 12 V SPST norm-open contacts; 20 amp. 2x1.8x1.1; 1# #81-2450-1, $3. l0/$24.

+ + + + + + + + + + + + + + + + + + + +

SIEMANS CONTACTORS, 80 VDC coils, 2 lbs. NEW: #3TH8262, 6 NO+2 NC contacts 220/660 V 10/2 A; 5x1.4x3, $15.

#3TH12022 2 NO+2NC; con tacts 230/600 V 3/1 amps. Aux contact 10A 240 VAC; 2.8x1.8x1.8. $6.50

+ + + + + + + + + + + + + + + + + + + +

8PST CONTACTOR, rated 660 VAC 6 amps; coil 80 VDC. 3x4.5x1.8, 2#. Schindler #MRG-44E, NEW, $14.95

24VDC CONTACTOR, SPST n.o. 28 VDC 50 amp contacts; 27 ohm coil. 2.5x2.7x 1.8, 1 lb. #MS24166-D1 $4.75

4PDT RELAYS w/ 10 amp contacts; 2x1.8x2. USED: #DOX-137T, 24 VDC 230 ohm coil, $2.95 #DOX-187 , 110 VDC 5000 ohm coil, $2.25

INTELLITEC 12 VDC 50 AMP contactor designed for use in RV's; flange mt. 3.5x 3.5x2.5; 1 lb #01-00055 $6.50

Stepper Relays

ROTARY STEPPING SWITCH 115 V 60 Hz ratchet-type; modify to take upto 17 contacts with electric reset. 4.2x3.2x2.5, 2 lbs sh. #SS-109216, $3.75

ROTARY RELAY, 28 VDC; one wafer, all contacts used. Has shaft w/ 2" arm. 2" x .9"dia. #8002-32 used $6

LEDEX 28 VDC SOLENOID, 8-position 45 deg stroke. Start torque: 5 lb-in 35 W (15 lb-in holding) cont. duty; 32 lb-in 700 W 1/20 duty. 7S-size 2.8" dia x1.9" W; 1/2x3/8" dia shaft. 4 lbs. #S-8210-025, UNUSED, $4.95

----REED RELAYS ----

4-REED RELAY CIRCUIT BOARD, 3 / 500 ohm & one 5K ohm 10-15 VDC relays; also a 26 VDC DPDT sealed relay. #792-312, $3.00

ELECTROL 5 VDC REED RELAY, low current SPST norm-open contacts; 0.7"x2.5"x0.6". #R4376-2, NEW, $2.25

+ + + + + + + + + + + + + + + + + + + +

TIME DELAY RELAY,

P&B 4PDT 24 VDC 5 amp contacts. Adjusts 1.0-45 sec with 15-turn pot, polarity protect. 1.6x1.3x0.8 #R12-30-24-X4-EI, NEW $9.95

VISIT OUR WEBSITE AT FAIRRADIO.COM

Standard Relays

OPEN FRAME RELAYS with heavy 10 amp silver contacts; mi-calex insulated. 1.8x2.4x1.8, 1 lb sh. USED-CLEAN:
#22-4383 DPST NO, coil 115 VAC 60 Hz 400 ohms, $14.

#22-4384, DPDT, coil 6.3vac1 ohm $16

#K104/HRX-1, DPDT ceramic, coil 28 VDC, NEW, $15.00

#1007-BF, = HRX-1, used, $8.

- -

MAGNACRAFT SPDT, 12 VDC 10 amp contacts, 100 ohm coil; Open frame; 1.8x1.3x1. #88X-150A, NEW, $2.50

GE#3SBW1001A2 SPDT 9.6-15.8 VDC relay 206 ohm coil; used in GE mobile transceivers. For solder or socket connections. 1x1x3/4. NEW, $1.50 each. 24/$25.00

3PDT 24 VDC coil with 120VAC 10 A contacts; plug-in type with socket. #KUP14D15, $3

DPDT 12 VDC 800 ohm coil, 2 Amp cont; socket or solder. #R10-E1-Y2-S800 new $3.00

P&B KR-4175-1 DPDT PLATE RELAY; sealed metal can, requries octal socket. 2.5x1.5x1.4, unused, $2.00

OMRON 3PDT RELAY, 24 V DC 650 ohm coil; 2 A contacts. 11-pin plug-in/solder lugs. 1 x 1.5 x 0.8; #OM-MY3 $2.00

3PST 120 VAC coil, 10 amp 1/4 HP contacts; clear cover, w/socket. P&B KU-4666 $3.25

4PDT 12 VDC 185 ohm coil, 2 A 29 VDC cont; w/ socket. 1.1x0.7x1.3; #TF154-CC, $2.

P&B #AKC7DY DPST n.o. 24 VDC coil; contacts 120/240 V 10/ 5A. Metal cover w/ lugs. 1.5x3x2.3; 1lb. NEW, $2.95

DUAL DC COIL each 3PST; one 24 V, other 48 V. PC-mt. 2.8x1.5x1.3; #116-2601, $2.50

115 VAC 60 Hz COIL 25 amp @ 28 VDC/ 115 VAC contacts; solder terminals. 1.8x 3x1.8; #26S20/2054, USED, $4.00

+ + + + + + + + + + + + + + + + + + + +

SOLID STATE RELAY by Opto 22. 3-32 VDC Control, Line voltage is 240 VAC. 2.3 x 1.7 x .9, NEW #240D25, (25 amp) $8.95 #240D45, (45 amp) $9.95

+ + + + + + + + + + + + + + + + + + + +

DOLLAR DAZE RELAY KIT, five plastic enclosed mixed relays 6, 12, 24 VDC and/or 115 VAC. #DD-56-98, $2

Sensitive Relays

SENSITIVE RELAY SPDT 6 to 12 VDC 1500 ohms, contact adjust. 2.8x2.2x2.3 1 lb shipping. #RM39/1901 used $1.50

Sealed SENSITIVE RELAY, 50 ohms 28 ma coil; DPDT contacts. Solder hooks; 1x1x2 1/4. #R400-2B-50 $2.95

ULTRA-SENSITIVE P&B 6 VDC DPDT RELAY, coil 500 ohm res. < 40 mv nom. power. Contacts rated 2 amp @ 28 VDC/120VAC; solder or socket mount. #R10-E1Y2SS500, NEW $3.50

- - - RELAY SOCKETS - - -

10-BLADE RELAY SOCKET for track mount of above; pressure screw terminals; 2.8x1.4x2., 1 lb sh. Weidmuller #RS, NEW, $2.50

P&B 4PDT RELAY SOCKET w/screw terminals, Rated 5 A 300 V max. #27E166, NEW $3.

Coaxial Devices

AMPHENOL #300-11266 COAX RELAY, response to 12 GHz, 30 watts 27 VDC coil. Input push-on SMA, output SMA and mini-BNC conn; 3.1x1.5 x1.4. NEW, ~~$16.00~~ $14.00 ea

MINICIRCUITS #PSW-1211 DIODE RF SWITCH w/ 3 - SMA connectors. Freq-range 10 to 2500 MHz; insertion loss 1.7-2.7 db, VSWR 1.7 max. Switch speed 4 usec; 5 VDC control voltage. 2.5x1x2, 1 lb. shipping. USED, $24.95

HEWLETT-PACKARD 33103A SPST MICROWAVE SWITCH 0.1-18 GHz; two SMA female & one Micro-dot (f) bias connector. 0.4x2.1x1. USED, $24.95

NARDA 370-BNM termination, DC to 18 GHz 5 watts average, 2 Kw peak; 1.05 VSWR. Type N male conn. .6"Hx0.8" dia. UNUSED, $14.95

ATTENUATORS

RLC #LAV-50-R ATTENUATOR, DC-800 MHz, 50 ohm input. Variable attenuation; two SMA connections, 1.6x1.3x0.5. $18.

ELCOM AT-53-10 ATTENUATOR, 10DB w/ SMA conn; Ag-plated, 1.5x0.5" dia. $10.00

VARIABLE 6-STEP ATTENUATOR, ladder network in 10:1 ratio. Attenuates 0.1 V down to 0.1 uv; 50 ohm impedance. BNC input & output connection; shaft 3/4"Lx 1/4" dia with gear drive. Silver-plated; p/o 0.01 to 50 MHz RF generator. .1x3.5x 4.8x3.5, 4 lb #AT101/URM25, used $19

- - - - - - - - - - - - - - - - - - - -

ROTARY TURRET 50 OHM COAXIAL ATTENUATORS from Empire NF-105 field intensity meter; to operate pull knob and rotate to next index. Mechanism is spring loaded to engage next attenuator element; 5"Lx3.4" dia, 5 lbs.

#ATTNF105-0-80, 0-20-40-60-80 db with BNC female chassis connectors on 7.5" cables. USED, $24.95

#ATTNF105-40-90, 40-50-60-70-80-90 db; female BNC chassis & male N conn on 7.5" cable, $19.95

#ATTNF-105-PR, one of each attenuator, $39.50

RF SWITCHES

PA BAND LOAD SWITCH, good source of RF parts with 7 CRL 850-Series 7.5 KV caps; 3 x20, 40,2/50, & 100 pf plug 7 gold-plated bypass caps 2/500 & 5/150 pf. Also 2/CRL JV9000 18-pos. ceramic switch deck; switch rotor has 9 connected contacts. 2.9x5.5 x2.5, 2 lbs. #S101/PRC-47, used $20

RF OUTPUT SWITCH from PI output network of Collins 500 W power amp. Switch selected fixed capacitance & inductance taps. Deck #1 is 4-position shorting. Deck "2 selected C, shorting taps of L as freq increased. Switch has no detents; o/a 6"L x 3.3" dia including 1/4" dia shaft which extends 2"L out front and 1"L from rear. #S1/367A, used, $16.95

6-POSITION CERAMIC TAP SWITCH for 100 W xmitter; 2.3x2.3x1.8, 1 lb. #3Z9605, $3.95;10 for $32.

TAP SWITCHES

ELECTRO SWITCH tap switch, 3 lbs sh. UNUSED:#568-5883 4PDT 60 amps 40 VDC; w/ knob, 4x4.4" dia, $7.00

#124106LE, 6PST 45A 600V cont. 40A 600 vac interrupt; no knob. 5x4.4 $10

ELECTRO SWITCH TAP SWITCH, 9- Deck 3 Pole 3-positions: ABEFIJ- BCFGJK-CDGHKL per deck. Rated 7.5 amps 125 VAC; 7"L x3.8" #ESI265096 used $15

- -

#LOV-230, 2-deck 4-pos continuous turn; 120/240 VAC 10/5 A. Shaft 3/16" dia, LESS knob. O/a 3"H. USED, $2.50

THREE DECK 7-POSITION TAP SWITCH w/ screw terminals; 10 amp shorting contacts. 1.8x2.x3.1 + 1.3" x 0.3" dia shaft. #ES32303LM, $3.50

MINIATURE TAP SWITCH, 1 pole 7-position rated 1 amp 1x1/2". $2.00

Rotary Switches

DAVEN-TYPE 18-POSITION, continuous turn; 2" dia. Zinc-silver contacts. 1/2x1/4" dia shaft. #3Z9825-92.2, $3.00

1-Pole 17-Position, 2-1/4" dia bakelite; 3/8x1/4" dia shaft. #PA3001 $2ea. 2/$3

FIVE-DECK ROTARY, each 2-pole 4-position; bakelite. 4x1.6" dia; shaft 1/2x1/4" dia #SW-RM39, used, $1.25

MINI-ROTARY, 1-pole 3-pos. shorting. 1" dia; 1/8" dia shaft. No hardware #LED-M13-S, unused, $1.50

ROTARY SWITCH 2-DECK 5-POS w/ OFF-ON switch; two SPST 8 A 125 V. 2.8"x1.5, 1/4" dia shft. #2D5PSW $3.

ROTARY SW, 1.6" dia bakelite #SW-342, 3-deck 4P 2-pos, $2.00 #SW-233, 2-deck 3P 3-pos, $2.00

SINGLE-POLE 9 pos phenolic rotary. 3/8x1/4 dia shaft 1.5x1.1 #467MX, $1.50

3-Pole 4-Position, #4-pos momentary; 1" dia bakelite. #SW-PRC-10, new $1.50

18-Pos. 1-Pole non-shorting w/ external auxillary 3 A low-voltage contacts that "make" for 180° of rotation. 2.3x1.8x1.6, 1/4" dia shaft. #258-5352, $3.00

CERAMIC 2-DECK 2-POLE 5-position each; 1.9" dia wafers Shaft 3/8"Lx1/4" di; o/a 2.5"L. #SWC-ZM30, used, $3.00

TECH-LAB precision, 4 pole 7-position w/ gold-plated contacts; 2- poles 5 amp & two 3 A. Shft 1"Lx1/4" dia; o/a 2.3x2.3x2.5, 1 lb. #TL-4P7PS used, $5

ROTARY SWITCH KIT, six types: multideck & contacts, $2.00

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

Toggle Switches

some single hole mount, some with mount plates; may be used or unused

+ + + + + + + + + + + + + + + + + +

AIRCRAFT-type Toggles, two hole mt:

SPST 5A/125V, #B-15 $.65 (momentary norm-closed)

SPDT 5A/125V, #B-9A $.75 (on-off-on)

+ + + + + + + + + + + + + + + + + +

INDUSTRIAL-type TOGGLES:

SPST 8A/125V, #8817K2 $.35 (above momentary)

SPDT 8A/125V, #ST-42D (on-on) $.35

DPST 5A/125V, #ST-22K $.35

DPST 10A/125V, #ST50K $.50

DPDT 10A/125V on-on #8824K14 $.75

DPDT 10A/125V on-on momentary., #ST-52R, $.60

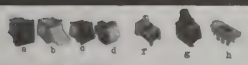
DPDT 6A/125V on-on; 1" mount barrel, 1/2" dia white ball cap, #T-WB-87, $.75

4PST 15A/125V, #7661K5, $1.00

+ + + + + + + + + + + + + + + + + +

#MS250229-2 DPDT Toggle Switch, 2"Wx1.4"Hx1.5"D switch + 7/8"L toggle handle. "Pull" handle to unlock positions on-off-on. UNUSED, $7 .00

Mini Switches



Black= Blk. White= wh. NEW:

SPDT on-off-on, wh. toggle (b); Alco #MLD106E, $.75

SPDT on-on, blk. rocker (c) JBT #MR2-123, $.65

SPDT on-on, blk push-type Alco #MSP105D, $.60

SPDT on-on 1-side mom; blk or wh push; CK8168 $.65

SPST black rocker (not mini) Carling #123, $.60

SPDT mom push switch; C-NC-NO., C&K 8125, 2/$1.

DP3T one side mom. (f) toggle; Alco #CST-023TA, 2/$l.

DPDT on-on slide (h), 6/$1.

SUB-MINI SLIDE SWITCH, SP 3-pos: #SLS-131PC, 4/$1.

+ + + + + + + + + + + + + + + + + +

Mini-Toggles, 120 VAC 6 A:

SPDT ON-ON, used, $.60

SPDT On-Off-On, used, $.75

DPDT On-Off-On, new $1.25

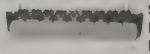
Lever Switches

4PDT one side 2PDT other side, both sides mom. #1155 new $2.00

TV-2 tube test P1 lever sw; make 2-break 2. USED, $2.00

DPST momentary normally open #050-338, unused, $2.00

Push Button



SWITCHCRAFT DW-Type, 9-button Push-on/Push-off; each section DPDT 3 amps AC; 0.5 A DC 125 V non-inductive. Can use T-1 1/4 size lamp; 1x6.3x1.5. #67097-506, NEW, $6.50

#67137-506, 13-button Push-on/Push-off; 8.8" W. $7.50

KLIXON 15 AMP PUSH BUTTON w/2.3" W mount flange; fits 1.4"x0.8"x 1.4"D hole. #43A8304, unused, $1.50

MICROSWITCH ALM-20 push-On/ push-Off SPDT switch w/red 5V LED; 0.9" sq x 2"D. #ALM-20-5V, $2.50 ea

Misc. Switches

MICROSWITCH KIT, five SPST VARIOUS style. $1.25

C&K KEY-SWITCH for electronic equip-ment; SPST 4 amp 125 V rated. Two keys; 5/8" dia, 1" depth. #CK-KY-SW, NEW, $4.

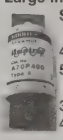
ROCKER SWITCHES, 1.6"Wx0.6"Hx 1.3"D; mt flange 1.9"W #0319, SPST, $.39 ea; 3 f/ $1. #0320, SPDT momentary both sides, $.65 ea. 2 for $1.20

ROCKER DIP SWITCHES SPST for PC board use. Can be soldered or fit in socket. Grayhill mfg. NEW #76SB04, 4 sw, $.65 ea; 6/$3.00

KLIXON THERMOSTAT SPST 4 amp 250 V. Open @ 170°F +3 ; 20 differentil. 2.6" dia X 0.9"D. #C-2851-5, $3.00

Fuse & Fuseholders

Large Industrial Syle Fuses by Gould - Shawmut Amp-trap. Form101



400 Amps at 700 VAC: 5"Lx2"dia #A70P400, $9.95

300 Amps at 500 VAC: 4.3"Lx1.4"dia #A50P300 $7.95

- -

Shawmut Amp-trap Form 600, 175 amp 600 Volt AC-DC. 9.5"Lx1.5"dia used $5

- -

GE Type EJO-1, Model 9F60FJD100, Size D, 12" clip spacing, 100E Amp, 4800 V, 15.9"L x 3"dia, 10 lb unused $19

- -

3AG 1 amp FUSES, 10/$1.00; SLO-BLO 3AG 1 amp; 10/$1.25

+ + + + + + + + + + + + + + + + + +

LIGHT INDICATOR FUSEHOLDERS for 3AG fuses; 1.6"D behind panel. O/a 2.9"L; used:

#FU-HKX, 22-33 V amber, $2.00

#FU-HKL, 115 V, clear $2.50

- -

Standard 3AG panel mount fuseholder, post type, quick connect. #342038, new, $ .75

Circuit Breakers

AN-3161- style PUSH BUTTON 5 amp breaker, 24-30 VDC; 2x2x0.8. $1.25 ea

TOGGLE 30 VDC breakers:

#AN-3160-5, 5 amps, $2.75

#8751K5-10, 10 amps, $3.00

E-T-A BREAKER, small 1.9"H x 0.8 x0.4 250 VAC 0.5 amp; ETA #41-06-P30 unused $1.95

AIRPAX BUTTON BREAKER rated 250 VAC/50 VDC 2.7 trip amp;2.4Hx1.4W x0.6"D. #PR11-1-2.00A-XX-V, $1.50

HEINEMAN AM12HK-type .5x2.8x2.3

32 VDC 8 A $2.50

32 VDC 20A $3.00

60 VDC 20A $3.50

- -

#JA2-A8-A, 240 VAC; hold 17A, trip 21.25 A. $2.00

- -

HEINEMAN CD2 type breakers, ganged two pole. 4.8x2x4, 2 lb NEW

#CD2-Z10-1, (Rt.) 0.035 A DC Cur P. (Lt.) 68 A 270 VAC 60 Hz Cur 3. $2.50

#CD-2-Z74-2 , 10 A 132 VAC 60 Hz T.D. 2; 125 A 10 VDC T.D. 3. $2.75

#CD2-A3-DU two 18 amp 240 VAC T.D. 1. ~~$4.50~~ $3.00

+ + + + + + + + + + + + + + + + + +

HEINEMAN PUSH RE-CIRK-IT, 5/8" dia "fuseholder-size"; 2.5 amp 50 VDC or 250 VAC. #KD1-2.5, new, $1.50

Stand-off Insulators

Stand-off insulators crows feet type. Brass plated bases and terminals: D= Diameter H=Heighth M=Mount base holes' center distance ST=Screw terminals CT=Clamp terminals

#B-H3-D1.25-ST3, brown ceramic; M=2.25". Term. cap: 7/8x1 5/8" dia; 2 lbs. $2.75

#W-H5-D1.25-ST, white; M=2.625". Term cap; 3/8x 1 1/4" dia. 3 lb $3.75

#B-H5-D1.25-CT, white; M= 2.25". Term cap: 1x1 5/8" dia. 3 lb $4.00

#B-H7-D1.25-ST, brown, M=2.6", Term cap 1x1 3/4" dia; 3 lbs. sh. $4.75

Quanity Discounts on above! 10-25 ea (1-type) 20% off; 25% (26-99), 30% (100)

- -

STAND-OFF with CLIP for clip-in resistors or capacitors. 2" H x 1" dia w/ 90 degree angle 3/4" dia clip, #NS4W0416, $2.00

#NS4W1208, 1"H x 0.8" square insulator with clip for 0.5" dia cap, $1.50

- -

PORCELAIN STAND-OFFS, no bases but screw threaded:

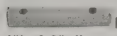
#P-4H-75D 4"Hx 0.75" dia; 8-24 threader. $.75 ea

#P-7H-100D, 6.8"H x 1" dia; 10-24 threaded. $1.00 ea

Strain Insulators

EGG-TYPE PORCELAIN STRAIN INSULATOR, 1.3"L x1"x1"with two 1/4"di holes. #INS-EGG-95, NEW, $1.25

STRAIN INSULATORS Brown porcelain 2.1"H x 2.3" dia with 0.7" dia center hole;1 lb #STI-2123D, $.65 ea; 4 for $2



RP-5 STRAIN INS, 4"Lx0.8" dia. two 1/4" dia holes 2.75" O.C. #3G1250-64.15, $1.25

GUY-INS-1 Strain brown porcelain 4" long 3/4" dia. 2- 3/16" holes for guy ropes. $1.10

BROWN porcelain insulator 8.5"L x 1.8"Hx 1"D with reinforced 0.5"dia hole on ends; 3#. #SPI-85181, $1.95; 2/$3

GUYINS-2 Strain brown porcelain 2 3/8" long 1 1/2" sq. 2- 3/8" holes. $4.00

- -

INSULATOR POST for mounting capacitors, coils, etc. 1.7"Hx3/8" sq porcelain; 1/8" di thru-hole near top; base threaded for chassis screw. #IP-1706, 4 for $1.

#NL523W14, 2"Hx1" square; two 6/32 threads top and bottom 4/$1.

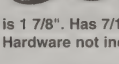
MP-48A INSULATOR for WW-2 vehiclular spring antenna base; 3.6"Lx2.6" dia,4 lb $16

COLLAR for MP-48A, fits bottom of base, $2.50

- - - - *INSULATOR KITS* - - - -

INS-K1 Has 4 insulators types:2 Large porcelain transformer style with a 3/16" feed through hole. 4 Glass feed through 3/8" base with soldering 1/4" up from base, 1/16" feed through hole. 1 pr. Porcelan clamping insulators 3/16" hole. 2 pr. Porcelain feed through over all 5/8" dia. Shelf for 1/2" hole in panel. $2.50

INS-K3 Has 6 Glass feed through 3/8" base with solder ring 1/4" up from base, 1/16" feed through hole. Originally transformer terminals but can be used as feed thrus. $2.00



TPB-K2 1 pr. of large porcelain feed through. Base is 2 1/2" dia. ring for panel hole is 1 7/8". Has 7/16" dia. bolt hole. Hardware not included. $5.00

IND-K1 Coil Form Assortment has: porcelain inductor core 1 7/8" tall 1 1/8" base has 4 mounting holes. The winding core has 41 grooves for wire 10 holes on flat edge. 3 small porcelain cores with 3 wire grooves. The base has a 6/32 threaded hole. $2.25

VISIT OUR WEBSITE AT FAIRRADIO.COM

HARDWARE

FLEXIBLE COUPLING 1.3"L accordian style; connects 1/4" to 1/2" shafts, #BFX-CPL-3-5 $5.

HEX SPACERS male-female thread or female-female (f-f) :

Length	per 20	per 100
4-40 threads 1/4" dia metal		
0.75"	$4.25	$12.50
1.375	$5.50	17.00
6-32 threads 1/4" dia metal		
0.375	$3.00	$10.00
0.625	$3.50	12.00
0.75	$3.75	12.50
1.5 (f-f)	$4.25	14.50
8-32 threads 7/16" dia:		
3.0	$7.00	21.00
1/4"-20 threads 9/16" dia:		
3.25 (f-f)	4/$2.50	20/$10
1/4"-28 threads 7/8" dia:		
2.87	4/$3.50	20/$14

U-106 TERMINAL POST "push" spring-loaded; silver-plated. Threaded 1"; o/a 1.9"H. USED, $1

HARDWARE ASSORTMENT of washers, screws, nuts, rivets, terminals; 2 lb $2.

TM-184-PT TERMINAL STRIP with 28 silver-plated 0.8"Hx0.4" dia spring push-down binding posts on 15.3x3.9 x0.4" thick black phenolic board. Phenolic may have minor chips; 4 lbs. USED, $20.00

#TM-184-ST, older version of above with 0.6" dia white-brass screw-down terminals, used, $22.

TERMINAL STRIPS, UNUSED:
4-TERMINAL pairs, 4"Lx1.8", $.50
7-TERMINAL pairs, 4"Lx0.8", $.65

AUGAT single 6-terminal PC mount: 2"Lx0.6"W: #4PCV-06, 10/$7.50

VARIABLE TERMINAL STRIPS, pairs removable to decrease or increase length.
#GE-V12-TERM,12 terminal pair 1.3Hx8.3Lx2"W $.50
#BUC-V8-TERM, 8 terminal pairs 1.3"Hx3.9"Lx1.1"W, $2.00

5BK-22 TERMINAL BOX, has three 13 terminals AN-3436 strips and two 9 terminals; 10/32 studs extend thru phenolic strip and have solder lugs. 4 lbs. UNUSED $3.00

SHOCK MOUNTS you bolt to equipment.

STYLES: A B C

#SM-4A,	4 #,	$.45	SM-6A,	6#,	$.50
-9A,	9#,	$.60	-12A,	12#,	$.75
-12B,	12#	$.85	-15B,	15#,	$1.00
-24B,	24#	$1.25	-50C,	50#	$1.50

CRYSTALS

JK02 OVENS for CR-26 xtal. 6 - 24 VAC/DC; plug into octal socket. Less xtals; USED #251B1001 for one xtal, $2.25 #251B1003 for two xtal, $2.75

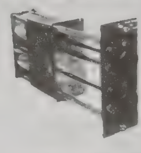
+ +

FT-241 XTAL SET for BC-604 (SCR-508/528) WW-2 xmitter 80 xtals (chan 0-79), $85.00
200 KHz FT-241 XTAL, $4.00

+ +

XTAL SOCKET ADAPTER for two xtals w/ 0.5" O.C. pins; octal base. #2Z307-166, $1.50

Twin Cavity Filters



TUNABLE TWIN-CAVITY BAND-PASS FILTERS, gold-plated cavities have tune knobs, dials, and rear N-connections. Designed for military TRC-24 radio system for specific frequency ranges; usable and/or adapt for civilian purposes. 7x2.5 x9.5, 8 lbs. Used, $22.00 each.

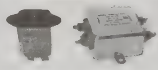
F-196/U 184-205 MHz	F-199/U 224-254 MHz
F-200/U 254-284 MHz	F-201/U 284-314 MHz
F-203/U 344-374 MHz	F-204/U 374-404 MHz

* F-197/U 205-225 MHz, unused, $30.00 *

116-150 MHz FILTERS

TUNABLE VHF FILTER for 116-150 MHz at 15 watts. Has two screwdriver adjust ports and two SMC connections. Sealed can; 1.5x5 x3.3, 2 lbs sh. #MFC-2510-1, NEW, $15.00

LINE FILTERS



DELTA EMI 3 AMP FILTER with 3-prong plug; 115/230 V 60 Hz. 2" W mount x 2" D; fits 1" x 0.8" hole. #03GEEG3H. $1.75

TOKIN #VG-215F, 250 VAC 15 amps 50/50 Hz with spade terminals; 2.6"Lx1.8" dia, 1 lb NEW, $3.00

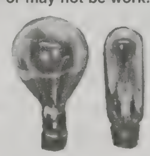
2x20 AMP FILTER, 115 to 250 VAC 48-440 Hz; 3.4x1.5x3.2, 1 lb. #F-85066, NEW $3.50; 10/$25; 100/$195

D C FILTER, 55 amps 30 VDC; two stud terminal, 2.8x5 x2, 2 lbs. #537-6615, unused, $4.95

FILTRON #FA-380 RFI DC FILTER, 3 X 10 amps 28 VDC; 1.6x3x4.5, 2 lbs. Unused $4.50

COLLECTOR BULBS

Unusual craft and projection lamp bulb: nice glass and simple but elegant filaments like old radio tubes. With mogul base; may or may not be work:



1 2

WESTINGHOUSE AVIATION 500 W 230 V (pic 1), 9.8"H x 4.8" d; #W5C-230 $9.

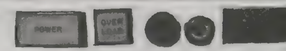
NALCO 375W BULB (pic 1), low amber-pink filament light from 115 VAC but lots of heat! 7.5"Hx 3.5" dia. $5.00

EDISWAN PROJECTION (2) 6-8 A 200 W; 5.3X1.4" dia. $3.00
T-8 PROJECTION BULB (like pic 2), 200 W 3.4"H x 1" dia; GE #PH/200T8SC, $2.00

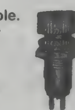
MINIATURE LAMPS

STK#	VOLTS	AMPS	BASE	BULB	EA	10 pk
313	28	0.17	min bay	T 3-1/4	.45	$3.50
1843	28	0.22	min bay	T3-1/4	.35	$2.50
1815	14	0.20	min bay	T3-1/4	.45	$3.50
67	13.5	0.6	S C bay	G-6	.35	$2.50
511	2	0.25	min screw	G-6	.20	$1.00
331	1.35	0.06	min flange	T1-1/4	.75	$6.50
1021	4.5	1.25	RP11	SC pref	1.00	$7.50
NE-47	115VAC	0.22	cand bay	T4-1/2	1.50	$12.50
NE-51	115VAC	0.2	min bay	T3-1/4	.75	$6.50
24-68M	24	0.68	DC bay	B-6	.35	$2.50

Indicators & Pilot Lights



KORRY 260 PUSH-TO-TEST INDICATORS, double lamp-holder with miniature bayonet base; 1.5"Lx0.8"H. All UNUSED. Clear & amber lenses with "rocket launch"-related inscriptions: 400 CPS DRIFT TIMER, 11*C HEATERS THERMOSTAT, HYDRALIC ACTUATOR TEST, HEATERS 1-2-3, COOLANT VENT VALVE, 1220 PSI SPHERES PRESSURE SW, STBY HTR COMMAND, JET PRESSURE SWITCH, 280 VA.
Price: $.75 each, 4 for $2.00



LAMP HOLDERS for 327 laps; fit 1/2" hole. Flat WHITE numbered lenses; specify: " ,4,5,6,7,9" or YELLOW "MAX".
#0934, $.55 each
#FLW-327 pilot light w/ 327 lamp; white lens. Used $1.35

MINI-DIMMER LIGHT for 327- size bulb; fits 3/8" dia hole, o/a 1.4"Lx0.6" dia. New
#0673, green jewel, $1.00

TINY 28 V NEON INDICATOR, 1-3/8" long x 3/8" dia; NEW #3495 clear lens w/ "B" 3/$1.
#3496 clear lens w/ "7" 3/$1.

GRIMES PILOT LIGHT as used in aircraft control panels. Takes #327 or similar lamp. Used. $ .65 ea

SUB-MINIATURE NEON PILOT LIGHT with 5/16" dia clear jewel. Base is receptacle for three 1/16" pins in triangle pattern. Mounts in 3/8" dia hole. O/a 1.4" L; includes neon bulb. #PIL007, $.35 ea: 4/$1.00

DIMMER LIGHT w/ NE-51 bulb; 1/2" dia clear jewel. Fits 5/8" dia hole; o/a 3" L.
#PIL-C433, used. $.75 ea

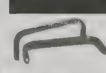
LARGE PILOT LIGHT for double contact bayonet bulb 1î dia smooth green jewel. O/a 2.8" L; fits 1" dia hole #8637, unused, $1.35

PRESS-TO-TEST INDICATOR w/ dimmer; mini bayonet base. 0.75" dia flat amber jewel; O/a 2.3" L, fits 0.6" dia hole. #AN-3157-2, used, $2.

COCKPIT LAMP

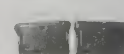
B-7 AIRCRAFT COCKPIT EXTENSION LAMP, black plastic lamp on 5.5 ft spring retractable cord; uses standard 2-contact auto bulb. Has dimmer & ON-OFF switch; 2 lbs sh.
"AS-IS", cord does <u>not</u> retract, $7.50

HANDLES



EQUIPMENT HANDLES , 4.9"L x 1.8"H x0.6"W black aluminum handles tapped for #8-32 screws; 1 lb sh. #BLK-HAND-95, NEW $4/ pr

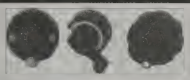
METAL EQUIPMENT HANDLES for mounting to panel fronts. 5/16" stock. 1.5"H x 4.25"W o.c.; with screws.
#PNL-HAND, used, $2.00/pair
#PNL-HAND-625, as above but 6.25"W, NEW, $2.75/pair



HEAVY DUTY EQUIPMENT HANDLES on 3.7x2.5 steel plate with three 1/4" dia bolt holes; 2 lbs sh. #HAND-AM20, used, $3.50 per pair.

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

KNOBS



#TK-LF-HF TUNER KNOB, aluminum 2" dia w/ 5/8"L crank; fits 1/4" dia shaft. Label reads "Lock Tuning LF-HF"; p/o SCR-506. UNUSED, $4.00

ARMY SPIN KNOB, retractrable crank w/ beveled top-screw shaft. 1.5" dia; for RT-70 or GRC-106. #2313, $5.00

#SP-348 SPIN KNOB with crank; fluted 2.1" dia, alumi- num. P/o BC-348 Rx. $6.00

LARGE FLUTED KNOB for 1/4" dia shaft O/a 2-3/8" dia. USED:
#KNB-238-25, $1.50
#KNB-LCP, for 3/8" shaft, $1.25 each; 2 for $2.00

2-3/8" dia FLUTED KNOB with 3" dia SKIRT for 1/4" dia shaft. #KNB-5IJ3, NEW $5.00

1.3" dia FLUTED KNOB w/ l.8" dia skirt; brass insert f/ 3/8" dia shaft. #KN04, $.70
#KN03, as above except 1.6" dia w/ 2" dia skirt $.90

DUAL CONTROL KNOB as used on H-P & TEK scopes; 1-3/8" dia skirted black base for 1/4" dia shaft with 3/4" dia red top knob for 1/8" dia shaft. #KN-DC-HP, used, $1.00

POINTED KNOB for 1/4" dia shaft; 1.8"Lx 1"Hx0.8"W. #KNBN-026-90, 3 for $1.00

Rounded BAR KNOB, 1-1/8"L x 3/4"Wx 3/4"H. Brass insert f/ 1/4" dia shaft. #KNART13, 2/$1.

DARK BROWN fluted plastic 1" dia X 0.5"H f/ 1930's & 40's radios. #KN-DB1, 3/$1

ALCO KNOBS, modern plastic knobs with brushed aluminum inset fit 1/4" dia shaft. #ALKN6, 5/8" dia x 3/8" H for 3/16" dia shaft, 4 for $1.00

KALRAD KNOB SET, five 1/2" dia plastic knobs with 5/8" dia skirt, chrome insert, & set screw; #KAL5K, NEW $1.25

AC LINE CORDS

Ground Fault Interupt (GFI) line cord, 12 ft 3-conductor #18 AWG; w/ reset button. #18-GFI $2.50

3-COND LINE CORDS:
#BL-3CG, 6 ft #18 wire;Black, molded. used $1.15
#14-3CBF, 6 ft flat w/ R-A plug; #14 wire. $2.00

"PIGGYBACK" CORD, 8' 3-cond #18; plug has receptacle for another plug. $1.65 ea

BUSINESS MACHINE CORD,
3-blade type w/ AC plug; 6' black, #18 AWG. #HP-NS, $2.
#16-HP-NP, #16 AWG 3-blade line cord; no AC plug. $1.95

HEATER CORD type HSJ, 3-cond 7.5' #16 wire; grey molded R/A plug. #HSJ-16, $2.00

+ +

WOODS OFFICE PRODUCTS CORD COVERS, conceals & secures 5/16" dia computer & similar cords; 6 ft long, 3#. Select colors: black #5611 or beige #5609. NEW, $5.95 ea. 2 f/ $10.

COAX CONNECTORS

PL-259 $1.10 ea 10 /$10.

SO-239 $1.10 ea 10 /$10.

PL-258 $1.75 ea 10 /$16.

#BP-NC Terminal Post, nylon cap, spring-loaded 1.8"H, $.75

#SO-239AG Ag-plate, $1.25 each
#SH-SO239 barrel mt. $.85 each
#2H-SO239 2-hole mt. $.85 each

UG-175, reduces PL-259 to RG-58 coax, $.35 each
UG-176, reduces PL-259 to RG-59 coax, $.35 each
M-358 "T" for two PL259 & one SO239, used, $1.50
M-359 ELBOW, PL-259 to SO-239, used, $1.25 ea

+ +

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptable, (r/a) right angle; (U) = Used, (Un) = Unused.
TYPE BNC: UG-88m (RG-58) U $.75 ea
UG-260 m (RG-59) U $.60 UG-290 f panel U $1.
-274 "T" 2-f to m, U $4. -909 bulk U $1.
-273 to UHF, Un $2.00 -306 R/A adapter,
-282 to post $1.50 used, $1.75
UG-913 r/a U $1.00 -255 UHF-BNC $3.
TYPE N: UG-21 m (RG-8) NEW, $4.00
UG-58 f chassis U $2.50 UG-27 R/A m-f U $2.
-536 m (RG-58) U $2.
-593 f bulkhead for R-59-62, used $1.50
-1052 f bulkhead for RG-58, used, $1.50
-201 ADAPTER, N to BNC, used, $2.50
TYPE TNC: Gremar #6000 (m) used, $1.50 ea
#6177 m R/A Un $3. #6098 to N f bulk U $3.
HN: UG-59 U, $5.00 UG-920 m-f R/A, $6.
UG-100 m U $1.50 DA-113 dummy U $4.00
-109 f/ UG-100 $1.50 UG-643 "C" f-f, $2.50
Mini-BNC p/o R-390A, used, $2.50 each
Mini-BNC chassis-type p/o R-390A, used, $2.50

COAX CABLES

New manufacture to MIL-R-17A specifications. Prices PER FOOT for lengths indicated. In between lengths, use higher price. *Less than 100 ft add 10% to highest price!*

COAX	Ohms	100 ft	500 ft	l000 ft	5000 ft
RG-8/U	52	.32	.29	.275	.265
RG-58	53.5	.17	.16	.15	.15

+ +

ESSEX 21-597 SUB-MINAX COAX, thin 0.15" outer diameter (0.1" O.D. core) for making RF jumpers etc. 75 ohm impedance; polyethylene insulaton, 93% shield. Similar to Belden 8218; 15 lbs/1K feet. UNUSED, $12 for 100 feet; $95.00 for 1000 feet

+ +

COAX CABLES with connectors from military equipment. USED/UNUSED:
#CG-409 CABLE, 25 ft RG-58 with two BNC, $4.50
RG-213-1, 16" RG-213 coax w/ R/A N conn. $5.
CG-3444, 42" RG-214 w/ 2 UG-573 "C" conn., $9.
31-224 BNC TWIN-Ax, 1-conn on 50" cable, $3.
A303892-10, SMA (m): TNC (f) 8" jumper; $4.50

+ +

HARDLINE COAX, 3/8" dia aluminum jacket, foam insulated. 3/32" dia solid copper wire:
#HLCX-3/8, $.65/ft; 100 ft/$56. 500 ft/$225.

+ +

MINI-FLEXIBLE HARDLINE COAX CABLE, Belden 1573A (RG-402 50 ohm) with SMA connectors. M =male, F=female, RA=right a ngle

#507-169/170A, two M, 5" Length, $9.00
#507-171A, M-RA to M, 4.3" L, $10.00
#507-173A, M-RA to M, 11.5" L, $11.00
#507-175A, M to F N-chassis conn, 8"L, $12.00
#507-176A, two M-RA, 3.1"L, $12.50

0.5" dia FLEXIBLE HARDLINE (Cablewave 16733) with male N-connections (1-right angle); Various lengths as noted; 5 lbs sh. #HDL-16733- (length):
3 feet, $15. 6 ft, $18. 10 ft, $22.
12 ft, $24. 15 ft, $30. 22 ft, $40.

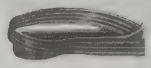
HOOK-UP WIRE

Vinyl-covered hook-up wire, all stranded copper; no color choice. May not have continuous lengths over l000 ft. Allow 2 lbs sh weight per 100 feet
SIZE: #12 $12/100 ft $99/1000 ft
#14 $7.50/l00 ft $48/l000 ft $195/5000 ft
#16 SOLID $4/100' $24/1000' $95/5000'
#22 SHIELDED $3.50/l00' $22/1K' $75/5K'
#26 SOLID $6/500' $9/1000' $30/5000'

Multi-Conductor Wire

MULTI-LINE TELEPHONE CABLES 18 feet 50-conductor PVC-jacketed cable with C inch 77-72500 blue connector on one end & terminal lugs on the other; a ready-made piece for complex wiring jobs. 3 lbs sh; #50-TC-18, used, $5.95

COMPUTER CONTROL CABLE with male DB-25 connector on one end and female on other; all pins wired. #24 AWG 300 V wire in gray PVC jacket. 25 foot length makes for nice peripheral extension cord; 4 lbs sh. Paradyne #835-3564-2511, NEW, ~~$14.95~~ $12.00

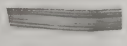


RIBBON CABLE for computer wiring or similar jobs; 20-conductor #22 stranded wire with ten color codes.

# RIB-20C-	10 ft	100 ft	500 ft	1000 ft
Price per foot:	$.50	$.36	$.30	$.20

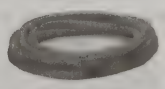
WM-46 CONTROL CABLE used in GRC radio equip; rubber-covered w/ braid. Ten conductor #14, five which are braided. 9 foot (3 lb), $10. 18 foot, $18.00

TAPE CABLE, 7-conductor #22 AWG vinyl-covered color-coded 0.8"W flat in-line style; 300 V max. 100 ft roll; 3 lbs. Brand-Rex #TC-1073-7, new $13



BELDEN "CITY COLOR" SHIELDED TWIN-LEAD TV WIRE; two 26 AWG 7x34 stranded copper-covered steel conductors with Beldfoil shield. Recommended for VHF-UHF-FM use in high interference metro areas. 75 ft (3 lbs), $8. 100 ft (4 lbs), $10.00

STEEL MESH over 1/2" square foam stripping seals and reduces unwanted radio frequency interference of RFI genrators like transmitters, oscillators and computers when installed between cabinet and chassis. Strip is 16 ft long and can be cut; 4 lb #RFI-8820, new $12.95



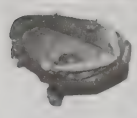
LIGHTER DC CORD, 15 ft cord connects to car, van or RV cigarette lighter allowing use of 12 VDC appliances throughout the vehicle; #16 wire, 2 lb. #LI-C15, $4.00
#LI-C3, 3 ft lighter cord, $2.50

INSTRUMENT TEST LEADS for meters, etc. One end has 5.2" L plastic prod; other end tinned wire. Military-quality; heavy insulation; o/a 36"L. One red & one black lead /set; 1 lb. #TS-LRB, $2.50

WEATHERPROOF OUTLET BOX, four 3-conductor AC outlets with separate spring-loaded covers in aluminum enclosure; 9" cable has 3-pin conn. 5.5x3x6.5, 4 lb #WP-4AC-BX used, $13.00

VISIT OUR WEBSITE AT FAIRRADIO.COM

ONE MAN RAFT



LR-1 SURVIVAL RAFT, rugged one-man life raft designed for US aircraft pilots has black rubberized fiber inflatable sides and a non-inflatable nylon rip-stop floor. Inflates to 62"Lx 12"Hx34"W overall using manual inflation tube or CO-2 charge. Fore and aft covers join with velcro strips to keep waves from filling raft. Cover's underside is high visibility "pink" color. Also ballast bags for stability & nylon water anchor; 5 lbs. UNUSED, ~~$69.50~~ $59.50

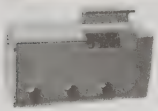
DC LOAD PANEL

"Loaded" with prime "clean" parts for DC power projects! Panel includes:

* 0-30 VDC METER
* 0-30 DC AMMETER
* 4 ea 50 MV SHUNTS
* 4 RHEOSTATS:
  - 2 ea 225 W 3 ohms
  - 2 ea 150 W 2 ohms
* 12 Circuit Breakers:
  - 6 ea 32 VDC 8 amps
  - 6 ea 32 VDC 20 amp
* 12 ea 1N1184 DIODES
* 4 ea 2.4" dia KNOBS and

other parts. Panel is sold "less its On-Off and 4 STA selector switch. 18.8x23x6, 30 lbs shipping.. #DAV-LCP, $49.00

PARTS GALORE

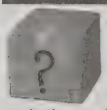


TELEMETER PROGRAM SELECTOR part of an absolete pay TV system which featured prerecorded tape program review, coin deposit register mechanism, and audio amplifier-power supply with 4" speaker. Generates 8 Mhz signal to trigger mechanism and 35 Mhz video output. Tape magazine has recording head and plays 66 ft of 1/4" tape in continuous loop. Mechanism has 5 RPM Cramer 115 VAC motor + other motor, gears, etc. Power supply output 150 VDC 100 ma and 6.3 V 3 amps. Tube line-up 3/6U8, 6BE6, 6BA8 &12BH7. Cabinet 15x7x7, 2l lbs. sh. Bargain price is worth the tape magazine, coin mechanism, power supply, or tubes alone. NEW, $9.95

CARD SCANNER

CREDIT CARD SCANNER, uses optical system to read raised numbers of credit cards into a photo array. Small AC motor drives card through reader; w/ connector diagram. 5x5x4, 3 lbs. #ECR2020, used, $3.50

GRAB BOX



ASSORTMENT of used and unused-commercial and government electronics parts such as assemblies, motors, coils, transformers, chokes, circuit boards, capacitors, resistors, and other usable items. Packed in 50 lbs cartons:

$12.00 each or 2 cartons for $21.00

(UPS shipping charges vary from $10 to $29 per box. Allow for charges!) GRAB BOX is good "fill" to make 150 lbs motor freight minimum wt rates!

RADIOSONDE

VAISALA RS80 RADIOSONDE, ultra-light disposable transmitter (400 MHz approx) is designed to be carried aloft by weather balloon and transmit data for air temperature, barometric pressure and humidity to a ground station. Consists of circuit board, dipole antenna, and trailing wire. Requires 9 V battery. Cute experimenter item! 12.5"H as shown; 3 lbs sh. NEW, $9.95 ea; 5 for $42.50

Dehumidifier Control

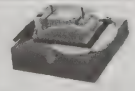
HONEYWELL DEHUMIDIFIER CONTROL as used in home dehumidifiers. Plastic element tape senses humidity and "opens" normally-closed 120 VAC contacts; has variable control. 1.8x4.5x1, 1 lb. #H46A1103, unused, $2.95

Mercury Thermometer

MERCURY THERMOMETER right-angle glass; probably for xtal oven control. #74661725, 4.5" L leg graduated 58° to 62° C in 0.1° C mark; 7" leg is Hg resevoir. $6.95

#7461727 Mercury Switch, makes contact @ 60° C; wire leads, 3.3"L legs. $5.95

Heating/Cooling Pump



THERMOELECTRIC 127-ELEMENT HEAT PUMP DEVICE, built for portable refrigerator; operates from 12-16 VDC. In original use, it is hot on 5"x5"x1.1" heatsink side but "freezing" on 2.6"x1.8" pump side. Reversing DC polarity reverses "hot-cold" effect. Pumps 50 watts @ 6 amps continuous. With 180° C normal-closed thermal cut-out switch. 2.5"H, 3lbs. #HPD-1250, NEW, $19.95

MINI PUMP

12 VDC IMMERSION PUMP, probably from auto/RV market; 3/8" dia outlet moves about 1 gallon/minute. Operates on higher voltages with increased flow rate for short periods: @ 24 VDC, 1.5 gal/min; @ 35 VDC, 2 gal/min. For non-flammable fluids only because fluid flows thru motor acting as lubricant. Use in fountains, solar water or science fair projects; 4"L x 1.5" dia, 2 lbs. #HAR-12V-IMP, NEW, $5.95; 2/$10.

MOTORIZED LENS

MINOLTA MOTORIZED LENS, focal length 3 mm with 6 mm zoom assembly; probably used in copy machine. Front coated lens diameter 60 mm; rear 15 mm. Focus and zoom mechanism each has small DC gear motor which operates at about 30 RPM @ 5 VDC or 60 RPM @ 10 VDC. 5.5x5.5, 3 lbs sh. #LENS-36-98, unused, $20.

WEAVER D6 SCOPE

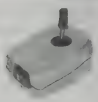
Qualtiy 6 power scope fits common rifle mounts.

Unfortunately scope is without cross-hair. Still a nice low-cost spotting scope! 12.3" long, 2#. NEW $15.00

Military Flashlight

MX-991/U FLASHLIGHT official rugged right angle military type made in USA. Operate from two "D" cell batteries (not included). Clear diffuser, red signal, and white opaque spare lenses store in handle; metal belt clip. O.D. green plastic; current issue, 8.3"Lx2" dia. NEW $6.75

JOYSTICKS / PADDLE



Has two 150K ohm vari resistors and "FIRE" button. 1.3" H metal control stick; no spring "return". 8 ft cord with DB-9 connector; 2.5x1.4x3.5, 1 lb sh. #MA8699, NEW, $5.00

JOYSTICK with four 50K ohm pots having fixed center-taps; smooth ball action. Brushed aluminum handle. 2.8x2.8x2.8; 1 lb sh. #JS-50K-LIB, NEW, $4.50

KRAFT COMPUTER PADDLES each have 100K ohm pots, FIRE button & 4.5 ft cable with DB15 conn. Each 4.3x3, 4 lbs sh. #KR820-005, NEW, $3 per pair

DOLLAR DAZE

PLEASE ORDER BY THE NUMBERS LISTED BELOW. The unit prices are only as indicated.

41-81 LOUD BUZZER HORN as used in smoke alarms; 2" dia x1.3". 6 VDC $1.25 ea; 12 VDC $1.35 ea; 115 VAC $1.45

52-90 COMPUTER GAME SWITCH BOX; select "TV" or "computer". 300 ohms, $1.50

51-89 KEY-LOCK for cabinets, etc. Key turns 4.8" long shaft and catch tab. NEW, $1.95

48-87 PHONE MODULAR SPLITTER, fits wall mod jack; adds 2nd outlet for computer or answer machine. $1.95 2/$3.00

55-95 SWR BOARD #PTSR006AOX for HyGain radio; no info. $1.

53-90 AC LINE CABLE ADAPTER f/ 3-cond plug to 2-cond outlet w/ground; grey. 3 for $1.

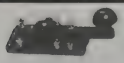
47-86 RUBBER EQUIPMENT PADS, 5/16" dia self-adhesive; 40 per sheet. 2 sheets for $1.50

54-91 NOISE-ACTIVATED SWITCH with sensitivity adjust and mic; 6 VDC input, 2"x2". $1.25 ea

23-77 BRASS COUPLINGS for joining 3/8" dia X 3/4" long shafts, 2 for $1.00

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

COLLECTOR KEY



No 2 MK III CANADIAN CW TELEGRAPH KEY, which was first used with WW-2 #19 Mk III radio set, has unusual phenolic rocker arm and brass hardware. 1" dia pounder button is knob-like for grasping or tapping; three brass terminal screws on base. O/a 4.6x2x1.6, 1 lb #ZA16929, used-clean, $22

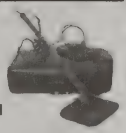
Copperclad Board

for making printed circuit cards. Phenolic backed; 0.07" thick, 1 lb #PH-4x18, 4"x18", $.75 each. 4 for $2.50; 10/$5.00

MAGNETIC RING

3.5" dia x 5/16" thick MAGNET with 1.9" dia open inner circle lifts about 8 lbs. 5" dia metal casing has mount flange to protect and isolate magnet; two wires attach to spring-loaded contacts. Use as magnetic antenna mount or in robotic, audio or science projects;2 lb #MAG-S91, $3; 5/$10

PSS-11 Metal Detector



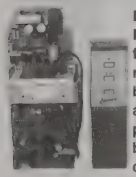
(Polan P153) transistorized unit uses 2500 Hz signal in mutual inductance bridge circuit to detect metal objects that cause an imbalance in the 9"x11" search head's magnetic field; disturbance is heard in operator's headset. Handle adjusts 29"-57" L. Also control pack with canvas bag & 7.3x24.5x16.5 transit case. Requires 7.3 to 10.8 VDC battery (BA-1389 5.1"Lx 0.6" dia) 35 lbs. USED-not tested, $75. MANUAL, repro, $10.

BRASS DEAD BOLT

ANTIQUE-BRASS LOCK SET made for gov't. Includes locking assembly, jam receptable, key cylinder & two keys; 2 lbs. #LS-264-7598, NEW, $7.95

REMOTE CONTROLS

INFRARED REMOTE CONTROLS, Draco mfg remotes for satellite positioning and channel selection. Each has A-B-C-D-E-F Satellite Select, Up, Down & Go To functions; requires 9 V transistor batter. Cheap to play with or use! NEW-not guaranteed; 2.8x5.8x1, #IR-DR-AIM, "Aimers", $1.50 ea; 2 / $2.00 #IR-DR-CHAN w/ Channel Select 1-2-3-4-5 -6-7-8-9-0, Mute & Seek; $1.95 ea. 2 for $3.00



EMERSON MULTI-FUNCTION REMOTE CONTROL SET, intended for use with ceiling fan & light, but receiver circuit board and push-button remote transmitter should adapt to experimentation and your projects. Originally one button brightened light and other two controlled speed of special AC motor (not available). Circuit board outputs to motor are fixed voltages with sequence and voltage dependent upon positions of four switch DIP code switch. Sixteen codes possible; remote actuates sequence. Receiver is not isolated from power line so extra care is necessary when working with this device. Transmitter requires 9 V battery (not supplied). Hook-up info included; #RC-5100/1, new $15

CALLING CARD TIMER

TELE COSTER I TELEPHONE METER, Ideal for keeping track of the minutes expired on your calling card or for keeping "tabs" on the length and costs of long-distance phone calls. Initial and secondary rates/period are programmable using the numeric plus 6-function keyboard. LED display shows cost/period plug elapsed time hr-min-sec. Also display flashes 15 sec before rate change and has X60 speed-up time so maximum acceptable charges can be determined before call. In sturdy, beige plastic case. Requires 115 VAC 60 Hz; 2 lbs sh. NEW, w/ info, $8.00; 2 for $12.00

TIMER BONANZA

CARTRIVISION TIMER CONTROL, part of early home video system; cheap gizmo with interesting parts: 115 VAC timer motor with upto 8 hr delay and SPDT contacts, 18 V 200 ma transformer, 12 VDC SPDT relay, SPDT & 4PDT slide switch, etc. 3.9x9.5x2, 2lbs. #CV-TC87, $1.

60 SECOND TIMER

RHODES 60 SEC TIMER, times from 2 to 60 seconds; bell signals time elapsed. 3ï dia plastic case; 1 lb. sh. #56414, NEW, $2.50 each.

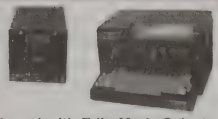
PARKING METER

ELECTRONIC PARKING METER with LCD readout of Time Remaining plus red EXPIRED flag. Takes nickels, dimes, and quarters at rate of 6 minutes per $.05; Requires 5 VDC. Could possibly be modified to turn-off TV or video game after time expired. 7x5.5x4, 3 lbs sh. #EPM-60, 60 minutes, used-excellent, $11.

INTERCOM / MONITOR

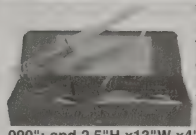
ONE-TO-ONE INTERCOM/ MONITOR, low-cost wire-type set allows someone to listen to kids, a sick person or pet from another room. Master control has ON-OFF, push-to-talk switch, and audio electronics; a remote control has speaker only; 20 ft wire. Requires 9 VDC transistor battery (not supplied); control size 4.9x2.5 x1, 3 lb #CH-MON, unused, $6.

TELETYPEWRITER



AN/UGC-129 TACTICAL TELETYPEWRITER with MU-734/UGC MAGNETIC TAPE UNIT, full duplex teletypewriter has 16K RAM and QUERTY keyboard with Edit, Mode Select, and Memory. Printer speed 120 CPS: 69-80 character line, single or double line feed. 64-character ASCII subset; ITA5 or Baudot codes. 8 baud rates 45.5 to 2400. Uses paper rolls 216 mm W x 127 mm dia friction feed, single or multi-copy. MU-734 TAPE UNIT stores 8-bit data for UGC-129 on standard cassette tapes; 300K char / tape. Requires 115/230 VAC 47-400 Hz; connectors not available. UGC-129: 9.5x15x18.5, 52 lbs. MU-734 7.8x8x13.5, 18 lbs. used reparable, $75.00/ set UGC-129 only, $49.50; MANUAL copy for later model (useful), $35 w/ set

SOLDERING KIT



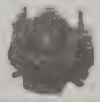
WELLER SOLDER / DESOLDER STATION with TCP-24G 48 W pencil iron, eight solder tips from 3/64" to 1/8" wide, 600 or 700 F; six desolder tips with orifices .038" to .090"; and 2.5"H x13"W x4"D steel carrying case. Requires115vac 60 Hz; 7 lb #WTCPK, unused, $69.50

AIRCRAFT SEXTANT

with PERISCOPE, used in larger military aircraft to determine nightflight position relative to the stars. Has eyepiece with cup to view through right angle periscope with bubble level. Controls increase bubble size and adjust lens diffuser plus filters red, green & polarized. Also mechanical timer, 3-digit 100-turn counter dial, & transit case. Requires 28 V AC-DC for lights; 8"Wx13"Hx5.3"D, 23 lb #MS28011-1F, used w/ fiberglass case, $59.50

AIRCRAFT GYROS

LEAR 3-AXIS RATE SENSOR with three #2157HB rate gyros; 3.4x6.4x6, 9 lbs sh. Lear #2162C, ~~$250~~. $175.00



SPERRY ROLL & PITCH CONTROL GYRO, model K-6; Rotating center 5.5"Lx4" dia; removable top cover. 6.4"Hx8" dia; 6 lbs. #K6-8510, $75.

AUTO BRAKE LIGHT

AUTOMOBILE BRAKE LIGHT, 5.5" W x 2.8" H red lens on black plastic stand; top swivel adjusts light angle. German mfg; o/a 7.5"H 2 lbs. #BL-G10005, NEW, $2.95

FIRE CHEX

AUTO SHUTDOWN DEVICE automatically disconnects a vehicle's electrical system in a collision. Also use of its 80" spline control allows Fire Chex to manually "shutdown" electrical systems making it more difficult for a thief to steal a vehicle. With spline, fused line, mount brackets, info. 4.5x4.5x2, 6 lb #FI-CHX, new $6 3/$12

AUTO TEST SETS

HEYER AUTOMOTIVE TEST SETS from the 1950's with 4.5" chrome-rimmed meters! Nice addition to a car collector's display or for experiment! NOT-TESTED!

MODEL 337 TACH / VOLTMETER, ranges 0-1000 & 0-5000 RPM and +/- 0-18 VDC, Amplifier button plus socket for timing light. With tubes 0A2 & 2D21; 6 or 12 VDC use. 13x5x5, 9 lbs. UNUSED, $24.95

MODEL 336, same as 337 except also has Spark Advance Meter with 0-30 Distributer degree and 0-60 Crankshaft degree scales. With tubes 2/ 0A2, 2D21, 6AL5, 6AU6,. 5696; 12 lbs sh. USED, $27.95

12VDC COUNTER

6-DIGIT MECHANICAL COUNTER 12 VDC nonresettable; black numerals on white. Rear mount flange; o/a 1.3"Hx 1.5"Wx2.5"D 1 lb. #E07B10DC12, NEW $2.95

VISIT OUR WEBSITE AT FAIRRADIO.COM

AC Voltmeters

0-7.5 VAC 3.5" rd, NEW, $6.95

0-10 VAC 3.5" rd, USED, $6.00

VTVM METER 1-10 VAC scale expanded with 3.5 V centered; also 0-20 DB. 4.5" rd. #0899, NEW $6.95

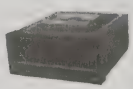
0-30 VAC GE DW-91, 2.8" Sq NEW, $8.00

0-150 VAC, Modutec Mfg. 1.8"H X 2.8" W bezel; fits 1.6" dia hole. Used. $8.00

DC Voltmeters

FS=2 VDC, 0-20/80 MA scale; 2.5" rd sealed. USED, $5.95

FS=5 VDC, scale 0-1.5 A & 0-300 MA; 2.5" rd. USED, $5.00



DATA TECH 0-20 VDC DIGITAL PANEL METER, uses Sperry 7-segment 0.5"H readouts. 10 meg ohm imped.; auto-polarity, OVP. Requires 115 V 60 Hz. Units have "weak" displays and/ or "bad" segments. 1.9"Hx4"Wx5.5"D, 3 lbs. sh. #5313-220, "AS-IS", $10.00

40-60 VDC, 4.3"Hx 4.8" Weston, NEW: $15.00

POLARAD Mfg. FS= 100 V DC, 0-100-500 scale, 4"Wx3.8"H. #M2/TV13, $8.95

FS=150 VDC, 0-1500-5000 sc. 4"Wx3.8"H. #M4/TV-13, $8.95

0-150 VDC, 3.5" round; Burlington 431. UNUSED, $7.00

0-200 VDC WESTON 2041; 4"Hx4.5"W, NEW, $12.00

0-200 VDC, JEWELL 2.6"H x 3"W; NEW, $7.95

0-15-600 VDC, 2 1/2" rd black face; w/ mult. code. USED $6.00

0-600-1500 VDC, FS=1 MA DC; 2.5" round. USED, $5.95

0-1.5 KV DC w/ ext- resistor; 3.5" sq Weston. USED, $14.00

0-20 KV, FS = 1 MA; 2.5" rd black, USED, $7.00

0-20 KV, FS = 1 MA; 3.5" rd white, USED, $8.00

AC AMPS

50-300 MA AC, 2.5" rd sealed. UNUSED, $10.00

FS=1 AMP AC, scale % Rated Current; 3.5" rd sealed, $5.95

Westinghouse A351, 3.5" sq: 0-10 AMPS AC, used, $14.50

0-15 AMPS AC SIMPSON, 2.5" sq. USED, $12.00

0-50 AMPS AC Modutec Mfg. with xformer 1.8"H X 2.8" W bezel; fits 1.6" used $12.00

FULL SCALE = 5 amps AC; transformer required for indicated scale (not available):
0-125 A, 3.5" dia. $9.00
0-150 A, 2.5" dia. $8.00

0-100-200 AC AMPS FS=5 A GE-YOKO 2.5" sq. $8.95

DC AMPS

0-5 AMP DC 4.3"Hx 4.8"; for Western Elec. USED, $10.

EDGEWISE METER 0-8 A DC; 1.9"W x 3/4"H; #D2588, $7.00

FULL SCALE = indicated:
10-0-10 ADC, 2.5" rd, $9.95
0-25 ADC, 3.5" rd, NEW $12.00
0-150 AMP DC w/ shunt, Modutec Mfg.1.8"H X 2.8"W bezel; fits 1.6" dia hole. used $10.00

FULL SCALE = 50 MV:
0-15 ADC 3.5" rd black, $7.00
0-30 ADC 2.5" rd, used, $6.95
0-75 ADC, 4.3"Hx 4.8"; $12.00
0-500 ADC 4.3"Hx 4.8"; for Western Elec. USED, $10.00

DC Milliamps

FS=1 MA, 0-5 V/50 MA scale 3.5" rd clear case. USED $5.

0-1 MA DC, 2.5" round; various mfg. USED $5.95

0-1 MA DC, 3.5" rd. NEW, $10

1-0-1 MA DC, 2.5" rd sealed; various mfg. USED, $5.95

FS=5 MA DC, 0-150 VDC scale 3.5" sq. USED, $6.95

FS=25 MA DC, 0-25/100/200 scale; 2.5" rd. USED, $5.95

0-30 MA DC, 2.5" rd; sealed Phaostron. UNUSED, $6.95

50-0-50 MA DC, 3.5" dia; Weston 301 or =, UNUSED $7

150-0-150 MA DC, 3.5" round Simpson. UNUSED, $7.95

100-0-100 MA DC, 3 1/2" rd Weston 301, USED, $5.95

DC Micro Amps

ES=25 UA DC SIMPSON, 25-0-25 Degrees, 2.5", $9.00

0-50 UA DC MODUTEC , 1.8"Hx2.8"W. NEW, $8.95

0-50 UA DC, 2.5" rd sealed. used $10

FS=50 UA DC, scale -30 -+150 w/ "O" center; 2.5" rd sealed. #TRC30150, $4

ES=50 UA DC, 0-center Red-Green-Red scale; 2.5" rd, $7.00

FS=100 UA DC, sealed USED:
2.5" rd, 0-500 & 100%, $5.95
3.5" rd, Red-Green-Red, $6.00

ES=100 UA, 0-center Null scale; 2.5" rd. sealed. $6.95

100-0-100 ua mirrored scale; indicated 1-0-1 / 500-0-500. 4.5"Wx 4.3"H, #M1/FLUKE used, $10.95

FS=200 UA DC, red face scale for metal detector; 2.6Hx 3W, Korean. new $2.

0-200 UA DC, various used 2.5" rd, $6.

0-200 UADC and -8-0-+6 DB, 2.5" rd. sealed. NEW, $4.95

FS=200 UA, 0-50 NULL METER 4.2"H X4.5"W; Simpson-style. NEW, $10.

500-0-500 UA DC; 3.5"W X 3"H HOYT mfg. Scale: -50/-100-0-+50;/+100 maDC, -25-0-+25 VDC. new, $9.95

ES=500 UA DC, 0- center scale 1-0-1 / 30-0-30; 2.5 " rd sealed. unused $6.95

- -1 3/4" SQUARE METERS - -

for 1.5" holes:

#M-ARC38, FS=2 MA DC, 0-10 scale, white face, USED, $9.00

#0372, FS=12.5-0-37.5 UA DC, -50-0-+150 scale. NEW, $9.95

- - MATCHED METER SET - -

#M15V-12A with 3.5" dia sealed meters 0-15 VDC and 0-12 ADC w/ shunt. USED, $20

- - - - - RF AMMETERS - - - - -

0-10 ANT-CURRENT (750 RF MA), 2.5" rd. USED, $10.00

0-100 RF MA, 2.5" rd. $10.95

- - - - - - DB METERS - - - - - -

-7-0-+7 DB, FS=501.5 ua; 3.5" rd blk face sealed. NEW, $5

-4-0-+6 DB 1 MW, FS= 1 MA; 2.5" rd sealed, used, $4.00

-6-0-+3 DB, FS=200 ua 2.5" rd sealed; used, $4.95

15-36 DB MW and 0-50 V output Level scales; FS=1MA DC, 3.5"dia. used $6

FREQ. METERS

60 / 400 HZ REED FREQUENCY METER two reeds--one 60 Hz, one 400 Hz-- vibrate when freq approached. 2" dia; fit 1.5" hole. #FM-TS382, used, $9.95

JBT 60 HZ REED LINE FREQUENCY METER dual 48-52 and 58-62 Cycles / Second scales each w/ 5-reeds; 3.5" dia. #30-FHXX., NEW, $34.00

- - -PRESSURE GAUGES- - -

0-60 PSIG & 0-4 KG/CM; 2.1" rd w/ 1/2" dia fitting. #PG-60PSI, NEW, $5.50

#M6000-PSI, 0-6000 PSI 4" dia 270 degree scale;7/16"di fitting. O/a 6"dia. NEW, $14.00

-RUNNING TIME INDICATOR-

mechanical 4- digit 115 V 60 Hz. 0.8" H x1.1" W bezel; fits 0.6" sq hole. #K49201P2 NEW, $13.00

TV-2 TUBE TESTER METERS

Grid Bias Volts, used, $10.00
Filament Volts, used, $10.00

- - METER ASSORTMENT - -

five U.S. mfg meters 2 1/2" x 3 1/2" - up; mixed odd scales, FS-100 ua and up-- no choice; 3 lbs sh. $10.00

- I-70 B TUNING METERS -

"Tune for Max" meter used in many WW-2 radio remote control boxes such as BC-311, BC-434 & C-4/ARN-7; 2.1x2.1x1.6, 1 lbs. USED, $10.00

GALVANOMETERS

Used in test bridges to indicate slight variations in current; 1 mm increments:

LEEDS & NORTHROP #18876, 10-0-10 scale, sens 0.1 ua/mm. CDRX 10K ohms; 500 system res. Period 4 sec; w/ Balance "lock". Behind panel: 4"D x 1" dia; front 3"H. NEW $25.00

GALVANOMETER 15-0-15 scale, sens 1 ua/mm. Meter coupled to mirror for photo-optic read. No Balance "lock". Behind panel 3"D x 2" dia; front 2.5" di, 2lbs shipping. #GALV-726667, $18.00

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

500 MHz H-P COUNTER

HP-5345A ELECTRONIC COUNTER, solid-state 9-digit plug-in type measures DC to 500 MHz channels A & B without any plug-in; resolution 2 ns single shot. Gate 100 nS to 1000 S in 11 decade steps. Function Select: Plug-In, Freq A, Period A, Time Int A to B, Ratio B/A, Start Stop. Channel controls 50 or 1 M ohm input, x1/x10 Atten, AC-DC, and Level. Requires 100/120/220/240 VAC 48-66 Hz; 5.3x 16.8x19.5, 42 lb sh. USED-reparable w/output, $250.

HP-5245L COUNTER, 7-digit predecessor of 5345A; measures upto 50 MHz without plug-ins. 100 mv sensitivity; gate 1 usec to 10 sec in decade steps. Units at least "test" count. 5.3x16.8 x18.3, 34 lbs sh. USED-REPARABLE without plug-in, $69.50
MANUAL, partial-repro, $20 w/set purchase.
HP-5245 with 5253B 50-500 MHz plug-in, $135.00
HP-5257A Transfer Osc. plug-in, 0.05-18 GHz, $250

HP-5328AF/096 ELECTRONIC COUNTER, solid-state modular design; counts upto 512 MHz on 9-digit LED display. Mainframe has

channel FUNCTION selector, FREQ RESOLUTION decade scaler 0.1 Hz to 1 MHz in 8-steps, 10 MHz reference oscillator, input for external freq-standard. Standard Universal 100 MHz Module controls Channels A & B functions LEVEL, AC-DC select, ATTEN 1-10-100, and Marker output. Sensitivity 25 MV to 40 MHz; 50 MV 40-100 MHz. Trigger level +/-X 2.5 V atten-level. Impedance 1 Megohm shunted by 40 pf. Option 030 Channel C module provides 5-512 MHz range, 15 MV rms sensitivity. Trigger fixed; 50 ohm impedance. With Option 011 HP-1B computer interface & manual repro. Requires 100/ 120/220/240 V 48-66 Hz; 3.5x 18.5x19, 28 lbs. USED-REPARABLE, $195 CHECKED, except for HP-1 computer interface, $450.

18 GHz COUNTER

HEWLETT-PACKARD 5340A FREQUENCY COUNTER,

covers 10 Hz to 18 GHz with automatic amplitude discrimination feature allowing counter to select largest signal in 250 MHz-18 GHz spectrum. Has 8-digit display; resolution 1 Hz to 1 MHz in 7 decade steps. Sensitivity -30 dBm, 10 Hz-500 MHz; -35 dBm 500 MHz-10 GHz; -25 dBm 10-18 GHz. Input impedance 50 ohms; 10 MHz crystal time base. Design accuracy =/-1 count +/- time base error. Has Self-Check and N and BNC input connections. Requires 115/230 VAC 48-66 Hz; 3.5x 16.8x18.8, 31 lbs sh. USED-CHECKED, $1095.00

SWR Measuring Set

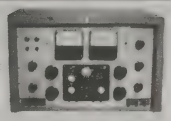
AN/USM-37D STANDING WAVE RATIO MEASURING SET for SWR measurements over 3 to 12.4 Ghz. Consists of Hewlett-Packard 415E SWR indicator, 444A untuned probe, 806B 3-12 Ghz coaxial slotted section, 809B slotted carriage, H810B (7-10 Ghz) & X810B (8.4-12 Ghz) waveguide slotted sections, H & X281A waveguide to coax adapters, HX292B waveguide adapter and fiberglass case. HP-415E is solid-state tuned audio amp for use with square-law detectors to determine SWR & Attenuation. Range 70 DB in 10 & 2 DB steps. Meter scales for SWR: 1-4,3.2-10 (NORM), 1-1.24 (EXPANDED) and DB: 0-10 (N) or 0-2 (Exp). Amp out-put 0-0.03 uv (N), 0.08 (Exp). Requires 115/230 VAC 50-400 Hz. HP415E: 7.8x6.2x11; 40 lbs. used reparable w/book, $295.00

POWER CALIBRATOR

HP-8900B PEAK POWER CALIBRATOR, measures peak power of RF pulses from 50 to 2000 MHz. RF Power Range 10-200 MW read directly on meter. Pulse width >0.25 usec; repetition rate 1.5 MHz min. RF VSWR <1.25. Requires 115/230 VAC 50-60 Hz; 7.8x6.1x11, 14 lbs . USED-REPARABLE, $95.00

Calibration Standard

RFL 829 CALIBRATION STANDARD for DC-AC instruments. Full scale ranges: 0.25 mv to 2000 VDC in 13-steps or 1.5-750 MV AC in 9-steps and 1.5-1500 V in 10-steps. AC-DC amps



ranges: 0.05-20 A in 10 steps. Accuracy +\-0.5% of full scale on 6" wide mirror-backed meters. Freq range 50-1000 Hz. Standard cell not available. Copy of general cal-book & operating info included. Requires 115 VAC 50-400 Hz; 22.8x 32.3x16.5, 200 lbs sh. USED-REPARABLE, $350.

X-Band Test Set

TS-147F X-BAND TEST SET for 8470-9630 Mhz range; functions as signal generator, power and frequency meter. RF output: -7 to -85 DB FM-CW-external modulation. Sweep variable 0.2-6 Mhz; pulse repetition to 4000 pps. RF input +7 to +30 DB. Sawtooth sweep 0- to -100 V. Uses 2K25 klystron. Requires 115 VAC 60-1600 Hz. 11.5x 17.5x10, 40 lbs. USED-REPARABLE, $175.
MANUAL for TS-147D only, partial repro, $12.00
AT-68 PICK-UP HORN, $12.00
UG-446 ADAPTER, UG-39 flange to N, $12..00
UG-397 ADAPTER, UG-52A flange to N, $12.00

LINE TESTER

VOLTS, FREQUENCY, POLARITY INDICATOR, handy safety item allows "quick" test of an unknown electrical line to determine its general characteristics. "Glow" lamps show Volts 28, 115, 250 DC/220 AC, 500 DC/440 AC; Frequency 60 or 400 Hz; Polarity red-black Negative when red & black probes are inserted into line. 2.8x5.4x2.5, 2 lbs.
AUL Model 1604, NEW, $15.95

H-P MICROWAVE

HEWLETT-PACKARD, 5 lbs sh. USED:
J532A, 5.3-8.2 GHz, $195.00
P532A, 12.4-18 GHz, $195.00
R532A, 26.5-40 GHz, $195.00
537A, 3.7-12.4 GHz, $195.00

+ +

VARIABLE MICROWAVE ATTENUATORS: 15 lbs
G382A, $195 J382A, $195
P382A, $150 S382C, $195

DIRECTIONAL COUPLERS: 2 lbs sh.

G752C, $99 J752D, $125
P752A, $99 R752A, $125
X752C, $99 X752D, $99

VARIOUS TEST SETS

Hewlett-Packard, Tektronix & others; REPARABLE:

HP-7B53A DUAL TIME BASE to 100 MHz, $95.
7B80 DELAYED TIME BASE to 400 MHz, $195.
7B85 similar to7B80 + CRT readout, $250.
181TR MAINFRAME f/ spectrum analyzer, $295.
214B PULSE GENERATOR, "like new" $995
419A DC NULL METER, 3 uv-1 KV, $125.
431C POWER METER LESS THERMISTOR-N/A $75
1600A LOGIC STATE ANALYZER, $295.
3746A Selective Level Measuring Set (opt 005, 088, H39), 50 Hz-32 MHz w/1 Hz resolution. $995
3945A 40 CHANNEL HP-1B SCANNER $125.
5180A WAVEFORM RECORDER, ~~$1795~~. $1450.
5342A FREQUENCY COUNTER, 10 Hz to 18 GHz in two ranges; 11-digit display, Opt 001 high stability time base; 002 amplitude measurement. $1295
8403A MODULATOR CONTROL w/8732B, 8733B or 8734B PIN modulators, ~~$295~~. $250.
8414A POLAR DISPLAY, ~~$350~~. $195.
8614A RF GENERATOR, 800-2400 MHz, ~~$350~~ $300.
8708A SYNCHRONIZER phase-lock for 606B, $150.
8741A REFLECTION TEST SET, .1-2 GHz, $250.
8742A REFLECTION TEST SET, 2-12 GHz, $250.
8743A/B REFLECTION TEST SET, 2-12.4 GHz, $295.
86230B 1.8-4.2GHZ 10mW PLUG-IN, $1295
86241A 3.2-6.5GHZ 3.2mW PLUG-IN, $1195
86242D 5.9-9.0GHZ 10mW PLUG-IN, $1395

+ +

ALLISON LAB #2CR HP/LP FILTER 600 OHM, $135
AUSTRON 2010B DISCIPLINED FREQ. STAND. $495
2100F LORAN C FREQUENCY MONITOR, $495
BALLENTINE 303-01 30HZ-8 MHZ RMS VOLTS, $125
BOONTON 102A AM/FM 10-480 MHz Sig. Gen., $395
COLLINS 7404A1 SOURCE GENERATOR, $195
FAIRCHILD ELECTRO-METRICS R-70B RFI RECEIVER uses 9 tuning heads covering 0.1 to 1100 MHz; with two cases & manual, ~~$1695~~. $1200.
FLUKE 332D/AB DC CALIBRATOR, ~~$795~~ $595.
335D DC VOLTAGE STANDARD 1 uv-1K V, $645
GENERAL RADIO 1633A INCREMENT INDUCTANCE BRIDGE, $850
1650B IMPEDANCE BRIDGE f/C, R, L, D, Q. $350.
KEITHLY 140 PRECISION NANO VOLT DC AMPS $125
LEEDS & NORTHROP 2 4735-S Wheatstone Bridge, 0.01-1111M ohm, $175.
4754 AC-DC Decade Resistor, 0.001-10 scales $75
4755 AC-DC Decade Resistor, 0.01-100 scales $75
7553-K3 Potentiometer/U-Voltmtr, 0-1.6 V, $195
7555-K5 Potentiometer/U-Voltmtr, -5 uv-1.6 V $295
MARCONI 2300B AM/FM Modulation meter, $425
TF791D CARRIER DEVIATION METER, $175.
MILITARY TS-62, ECHO BOX $75
ROCKLAND 5600 SYNTHESZER, 0.1-160 MHz $400.
RACAL 9303 DIGITAL RF LEVEL METER, 9 ranges 300 uV to 3 V; 100 KHz-2 GHz. ~~$495~~. $275.
SIMPSON 467 DIGITAL RMS VOLTMETER, $125
TEKTRONIX 422A Portable scope 2-trace 15 MHz$150
454A SCOPE, DC to 150 MHz dual trace, $295.
585A 80 MHz SCOPE w/82 dual-trace plug-in $150.
WAVETEK 154 .001 TO 10 MHz PROGRAMMABLE WAVEFORM GENERATOR, SINE, SQ., TRI., $395
WAVETEK 178 1uHz TO 50 MHz PROGRAMMABLE WAVEFORM GENERATOR, sine, sq, & more, $595

Crystal Rectifier Tester

TS-268E CRYSTAL RECTIFIER TESTER, measures front and back resistance and back current of IN-21-23-25-26-78 xtal diodes on 2.5" MA-meter. Requires D-battery. 7.5x4.4x5.8, 6 lb USED, $16.95; UNUSED $22. MANUAL, $8.50

VISIT OUR WEBSITE AT FAIRRADIO.COM

URM-120 WATTMETER

Measures incident & reflected RF from 10 to 1000 watts over 2 to 1000 MHz. Uses three plug-in coupler elements CU-753 (2-30 MHz, 50-100-500-1000 W), CU-754 (25-250 MHz, 10-50-100-500 W) and CU-755 (200-1000 MHz, 10-50-100-500 W) that fit TS-1285* meter. Max-insertion VSWR 1.08 (1.05 for CU-754/755, 500 W range). Power selectable on each coupler. TS-1285* has 3.5" dia meter, 0-10-50 W scale and N conn. W/transit case & manual. 5x4.8x7.3, 20 lbs.
URM-120, (TS-1285 etc), used-reparable, $175.00
URM-120A, (TS-1285a etc), used-reparable, $220.00

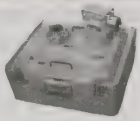
ME-82/U Wattmeter

for 50-600 MHz range 120 watts at 52 ohm input. Has non-linear scales 0-120 W 2.5" dia meter & C connection. 5.8x6.8 x13.5, 17 lb USED, $65.00

DUMMY LOAD

DA-189/GRC DUMMY LOAD, portable 50 ohm unit operates over 600 to 1850 MHz range @ 40 watts max. Output indicated on 3.5" dia meter; "C" input connection. 4x4x10, 9 lb. unused $75

DA-727 DUMMY LOAD



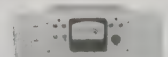
DA-727 DUMMY LOAD, designed for use with GRC-215 HF radio system. Has Cardwell M9-20 fixed silvered 1/2"W ribbon inductor forming 12-turn 4.3"Lx5" dia coil (tapped 4th turn), Jennings CLFI-50 50 pf 35 KV fixed vacuum capacitor and four 1000 ohm 200 watt non-inductive resistors. Also accessories K&L 30 MHz low pass filter with N connections, 100 W and 400 W ATU fixtures and HV covers. Requires 115 VAC 50-60 Hz; in 13x 21x19 fiberglass case, 65 lbs sh. UNUSED, $175.00

Sound Level Meter

MITCHELL INSTRUMENTS S2A SOUND LEVEL METER, hand-held unit has scales 50 - 130 DB in 10 DB steps with 0-10 DB expanded scale meter. Measures A-weighted sound level as defined by OSHA; better sensitivity > 500 Hz. Designed to monitor noise level in work areas. Metal enclosed. Requires NEDA 1604 battery; w/soft case. 5.5x2.6x2.3, 2 lbs. #MIT013, NEW ~~$225.00~~ $175.00

See page 19 for Volume Level meters

Noise Level Meter



NORTHEAST ELECTRONICS TTS37BR NOISE LEVEL-VU METER, 1 & 10 db/step attenuators measures level +23 to -95DBM; Noise 13 to -5 DBRN. Input imped 900 & 600 ohm circuits balanced/ unbalanced, terminating or bridged. Sensitivity -80 DBM @ 0 DB. Has large VU-meter with scales -15 to +3 VU-DB, -5 to +13DBRN. 8.8x19x7.5, 15 lbs.
USED-REPARABLE w/book, $99.50

MEGOHM BRIDGE

GENERAL RADIO 1644A MEGOHM BRIDGE for sensitive measurements of insulation resistance of cables, transformers, etc; voltage and temperature coefficients; volume and surface resistivity of solids or liquids. Ranges 1 k-ohm to 1000 T-ohm (10 to 15th power) in ten steps; +/-1% accuracy to 1 T-ohm possible. Test volt ranges: 10-20-50-100-200-500-1000 V. Requires 105-125/210-250 vac 50-60 hz;12.5x12.8x7.8, 24 lb used checked $375

UNIVERSAL BRIDGE

HEWLETT-PACKARD 4260A UNIVERSAL BRIDGE, has seven full scale ranges permitting measurements of resistance (R) 10 milliohms to 10 Megohms, inductance (L) 1 uH to 1000 H, and capacitance (C) 1 pf to 1000 uf. Also two ranges D (0.001-0.12 & 0.05-20) and Q (0.05-20 & 8-1000). Has D-Q Vernier scale, Range select, 4-digit mechanical CRL indicator with Sensitivity control, and Function selector; also internal 1 KHz 100 mv oscillator. Requires 115/230 VAC 50-60 Hz; 6.5x7.8x11, 15 lb. used checked $295

TEK L-C METER

vacuum tube-type meter measures small reactances in series between 125 and 140 KHz. Inductance L to 300 uH & capacitance C to 300 pf in ranges 0-3, 10, 30, 100, 300 read on 4.5" panel meter. Useful in measuring small vacuum tube interelectrode capacitances. Requires 105-120/210-250 VAC 50-60 Hz; 10.6x7x11.1, 18 lbs sh. used reparable w/book, $95

DIGITAL MULTIMETER

BALENTINE 9632M (AN/USM-451) DIGITAL MULTIMETER, 3-1/2 digit LCD display operates from two D-cell batteries. AC-DC VOLTAGE ranges 0.2-2-20-200-1000 V with overvoltage protect. AC-DC CURRENT ranges 0.2-2-20-200-2000 MA-10 Amps. Ohms: 200-2K-20K-200K-2000K-20M ohms. Diode Test on 2K and 20M ohm ranges. Extended freq-response 20Hz -25 KHz. Input imped: 10 megohms all ranges. LCD display may have blemish; "reparable" units tested to "zero" only. 2.8x8.2x9, 4 lbs sh.
USED-REPARABLE with test leads & bag, $39.50
Gov't-Reconditioned w/"used" leads & bag, $79.50
#9632-BAD, non-working "parts" meter, $15.00
MANUAL for USM-451, partial repro, $8.50

VECTOR VOLTMETER

HEWLETT-PACKARD 8405A VECTOR VOLTMETER, measures by both magnitude and phase over 1 to 1000 MHz in 21 overlapping bands. Also capable of determining insertion loss, group delay of bandpass filters, complex impedance of mixers and antennas, RF distortion and in-circuit probing. Ranges: 100 uv to 1 V-rms full scale in 10 db steps. Phase: 360 degrees on 0-center meter with end scale ranges +/- 180, 60, 18 and 6 deg. Band-width: 1 KHz. Requires 115/230 VAC50-400 Hz; 7x16.8x18.4, 36 lbs used reparable, $295

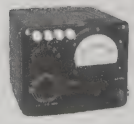
AC VOLTMETER

HP-403B (Opt 001), 0.001 to 300 V-rms in 12 steps; -60 to +50 DB in 10 DB steps. Response 5 Hz-2 MHz. Design accuracy +/-0.2 DB of full scale 10 Hz-1 MHz; < +/-0.8 DB all. Input imped: 2 megohms. Requires 115/230 VAC & four 6 V 225 ma batteries in regulating circuit. LESS batteries; 5.1x6.3 x8, 9 lbs shipping.
USED-REPARABLE, $59.50
MANUAL for HP403B, partial repro, $10.00

HP-400GL VOLTMETER

HP-400GL ANALOG AC VOLTMETER, ranges 0.1 to 1000 V-rms in 8 decade steps; -80 to +60 db in 10 db steps. Response 20 Hz-4 Mhz; output 1 Vrms open circuit. Input impedance 10 megohms. Requires 115/230 VAC 48-440 Hz; 6.3x5.x11, 9 lbs sh.
USED-CHECKED w/book, ~~$149.50~~ $135.

AC-DC VOLTMETER



ME-180/USM-116 AC-DC VOLTMETER, features 20 Hz to 100 MHz response and full scale Volt ranges 1-3-10-30-100-300 AC-DC and 1000 VDC. Also seven Current ranges 1 to 1000 DC MA and Resistance 1 ohm thru 1 Megohm. High frequency AC probe has 6923/EA52 tube. 7x8.3x9, 21 lbs shipping.
USED-reparable, $45.00; CHECKED, $95.00
MANUAL for USM-116, partial repro, $10.00

DC VOLTMETER

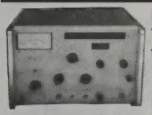
ME-440/USM-381 DIFFERENTIAL DC VOLTMETER, similar to Fluke 896A; ranges 0-10-100-1000 VDC. Probe for 1100 V (upto +/-5 KV common-mode) and 15 KV multiplier input. NULL ranges 0.01-0.1-1-10-100V -TVM used with 5-digit scaler as differential meter. Solid-state; w/cover & operator info. 115/230 V 60 Hz; 11x12.5x15, 30 lbs shipping.
USED-REPARABLE, $45.00

SIERRA 125B Voltmeter

SIERRA 125B FREQUENCY SELECTIVE VOLTMETER, usable as VLF receiver, if you make a preamp for it. Freq range 1-620 KHz in one band. Attenuator -70 to +30 DB in 10 db steps or 0.0003 - 30 Vrms full scale, 11 steps. Band-width 250 or 2500 Hz, line impedance 135 or 600 ohms & two calibrators. Requires 115/230 VAC 60 Hz; 10.3x 17x14.5, 40 lbs. used reparable $79.50

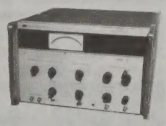
CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

H-P ANALYZERS



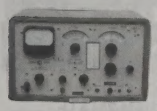
HEWLETT-PACKARD 310A WAVE ANALYZER, covers 1 KHz to 1.5 MHz; bandwidths 200, 1000 & 2000 Hz. Resolution 200 Hz/div. Modes AFC-Normal-BFO-USB-LSB-AM. Amplitude ranges 10 uv to 100 V full scale, 16 steps. AFC: dynamic hold-in +/-3 KHz min @ 100 KHz; tracking 100 Hz/sec. Has headphone jack; operable as VLF receiver. Requires 115/230 V 60 Hz; 10.8x 16.8 x18.4, 50#. USED-REPARABLE w/book, $125.00

+ +



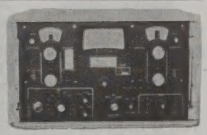
HP-312B ANALYZER / FREQUENCY SELECTIVE VOLTMETER, 1 KHz to 18 MHz AM, AM AFC, BEAT, USB, LSB in 18 overlapping bands indicated on 7-digit readout. Synthesizer for tuning phase-locked in 1 MHz steps. Bandwidth 200, 1000 or 3100 Hz. Reference level -40 to +20 DBM in 10 DBM steps. Amplitude -60 to 0 DB in 10 DB steps. Impedance selectable 50, 60, 75, 124, 135, 150 or 600 ohms balanced or unbalanced. Audio output > 0.5 V rms into 10K ohm full scale deflection. Recorder output 1 V full scale deflection open circuit. Requires 115/230 VAC 50-400 Hz; 16.8x10.5 x18.8, 51 lbs. USED-REPARABLE, $195.

+ +



HP-302A WAVE ANALYZER, 20 Hz-50 Khz; modes AFC-Normal-BFO; Resolution 10 Hz/div. Meter ranges 30 uv-300 Vrms in 15 steps; dynamics >75 db. 600 ohm impedance; BFO output 0-2 V open circuit. Vacuum tube-type. 12.5x 20.8x14.5, 50 lb used reparable w/book, $135

Frequency Selective



SIERRA 128A FREQUENCY SELECTIVE VOLTMETER for analyzing carrier signals 4.5 Khz to 15.2 Mhz LSB-AM-USB phase-lock. Usable as receiver. Separate Mhz & Khz tuning circuits w/ controls COARSE, FINE, CURSOR & input TRACKING SIGNAL BNC jack. Voltmeter has mirrored-scale and ranges 30 uv to 30 V in 13 steps; DB ranges -90 to +30 db. Select 75-135-600 ohm 1 Mhz calibrator; also Selectivity WIDE-NARROW, Main Tune LOCK-CONT, Audio GAIN & phone jack. Solid-state; requires 115 VAC 60 Hz. May have brown or beige front panel; 12x 20x15.5, 52 lb USED-REPARABLE w/book, $145.

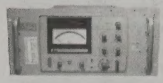
+ +

SIERRA 360B SPECTRUM DISPLAY for use with Sierra 305A or 128A selective voltmeter; has 3x5 P7 long-persistence CRT. Sweep width 120, 12, or 3.6 KHz, 25 DB response. Attenuator 0-20-40 DB calibrated; vernier +5 to -20 DB. Input imped 50 ohms; IF input 21.1 MHz @ 50 uv. Oscillator input 18.8 MHz. Requires 115/230 V 50-60 Hz; 5.3x19x15, 28 lbs shipping.
USED-REPARABLE with manual copy, $150.00
RUGGEDIZED CASE & FRONT COVER f/360B, $20

+ +

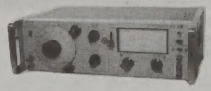
SIERRA 305A TRANSMISSION MEASUREMENT SET, consists of 305A-G Signal Generator, 305A-L Level Meter and 305A-T Tuner; 1 KHz-33.5 MHz, 10 Hz resolution + phase lock. Rackmount; 90 lbs shipping. USED $395.00

HP-3581A ANALYZER



HEWLETT-PACKARD 3581A WAVE ANALYZER, seperates and measures frequency and amplitude spectral components over 15 Hz to 50 KHz with 1 Hz resolution. Uses 5-digit LED freq-readout & analog meter for amplitude analysis. Meter scales: Volts (30 V - 100 nV linear), 90 dB or 10 dB display (+30 dB to -150 dB log). Sweep scan width adjusts 50 Hz - 50 KHz. Requires 100-120/200-240 V 48-440 Hz; rackmount: 10.5x 19.3x16.3, 30 lbs sh. USED-CHECKED, $395.

Distortion Analyzer



HEWLETT-PACKARD 333A DISTORTION ANALYZER has Auto-Nulling feature that speeds up measurement of total distortion 0.1%-100 % in 7 ranges over 5 Hz to 600 KHz; harmonics to 3 MHz. 1 Khz filter attenuates frequencies below 400 Hz. Fundamental rejection >80 DB. Meter indicates 300 uv to 300 V rms in 13 ranges, 10 DB per range. Requires 115/230 V; 16.8x5 x15.3, 24 lbs sh. USED-CHECKED w/manual, $275.00

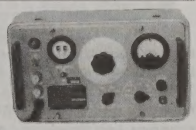
H-P Audio Oscillator

HP-200CD OSCILLATOR, vacuum tube -type covers 5 Hz to 600 KHz in five bands X1-10-100 -1K-10K; variable output 10 volts into 600 ohms, 20 V open circuit. Requires 115/230 VAC 50-400 Hz; w/ manual copy. 7.5"Wx 10.8"H x12.5"D, 20 lbs sh. USED-REPARABLE, $85. CHECKED, $125.

- -

HP-201C, similar to 200CD except 20 Hz to 20 KHz in 3 ranges; output 3 W (42 V) into 600 ohms; 50 V max no load. Distortion <0.5% 50 Hz-20 KHz @ 1 W. Attenuator 0-40 DB in 10 DB steps. CHECKED w/book, $119.50

URM-127 Audio Oscillator



AN/URM-127 SOLID-STATE AUDIO OSCILLATOR, 20 Hz to 200 KHz in four bands. Metered output 0-10 Vrms into 500 or 1000 ohms in 7 decade ranges. Design accuracy +/-2%; stability +/-0.5%. Requires 115 VAC 50-70/380-420 Hz. 7.5x13x4.5, 15 lbs sh. USED-REPARABLE, $55. CHECKED, $100.00

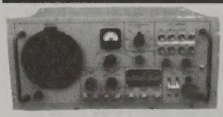
AN/URM-127A newer version, but no frquency meter. Used reparable, $65.00 Checked, $120.00

MANUAL for URM-127, partial repro, $10.00

AUDIO TEST SET

MARCONI TF2005 DUAL AUDIO TEST SET, low distortion unit (designed <0.05%) consists of two 20 Hz-20 KHz oscillators, 0.1-111 dB T-attenuator and voltmeter. Output 15 dBm into 600 ohms. Attenuator balanced 75, 150, 600 ohms 1 W max; unbalanced 600 ohms. Voltmeter ranges 1.5, 5, 15, 25 V; dB ranges +10, +20, +24. Requires 115 VAC 50-60 Hz; 7x17x11, 32 lb sh. USED-REPARABLE with output, $195.00

1200 MHz Sweep Generator



SG-677 SWEEP GENERATOR, solid state covering 0.5 to 1200 MHz in ranges 0.5-300 & 300-1200 MHz; output 0.5 V-rms into 50 ohms. Sweep width continuously variable 0.01-1 MHz (narrow), 0.5-400 MHz (Wide). Sweep rate continuously variable 5-60 Hz. Attenuation 0 to 70 DB in 10 DB steps + vernier; markers 1--10-50 MHz. Texscan mfg; requires 115 VAC 60/400 Hz. 10.5x19x17, 38 lbs sh. USED-REPARABLE, $195.00
MANUAL, partial repro, $12.00
ALUMINUM TRANSIT CASE for SG-677, 28 lbs, $25

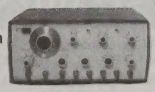
H-P Sweep Generator

HEWLETT-PACKARD 8601A SWEEP GENERATOR, compact unit covers 100 KHz to 110 Mhz in two bands 0.1 -11 &1 - 110 MHz; +/-1% design accuracy. Output +20 to -110 DB in 10 DB steps w/ 13 DB vernier; CW or Sweep SYM-Video-Full. AM-FM modulation 1 KHz. Requires 115/230 V 60 Hz. 6x7.8x16, 26 lbs sh.
USED-REPARABLE with output and book, $395.00

1400 MHz Sweep Generator

WAVETEK 2001A SWEEP GENERATOR, covers 1 to 1400 MHz sweep and CW in bands 1-500, 450-950, and 950-1400 MHz. Sweep width 50 KHz to 500 MHz. Sweep time: 100 to 0.01 S in 4 decade steps. Markers at 0.2, 1.5 and 20 MHz harmonics and single frequencies 63 MHz, +/-0.35 and +/-0.9 MHz. Marker width 15-400 KHz in 4 steps. RF output continuously adjustable +9 to -81 dBm into 50 ohms. Requires 115/230 VAC 50-60 Hz; 5.3x 11x14.2, 25 lbs sh. USED-reparable w/book, $395.00

Function Generator



WAVETEK 145 PULSE /FUNCTION GENERATOR, operates over 0.0001 Hz to 20 MHz in ten ranges. Wave outputs: sine, +/- square, triangle. Voltage Controlled Generator (VCG) allows sweep of frequency over 1000:1 range. Pulse selectable and variable to 30 V p-p for TTL and ECL. Outputs Continuous, Triggered and Gated plus Normal, Delayed & Double Pulse. Period range 50 ns-10000 S in 10 steps. Width 25 ns-1 ms in 5 steps; delay 50 ns-10 ms 6 steps. Requires 105-125/206-250 V 48-400 Hz; 5.3x11.5x10.5, 13 lbs sh. USED-CHECKED, $195.00

Audio Output Meter

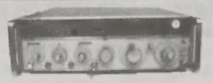
TS-585 OUTPUT METER for audio amps, filters, oscillators. Ranges 0.1-5 mw, -10-+7 dbm; 1-50 mw, 0-+17 dbm; 10-500 mw, +10-+27 dbm; 100-5000 mw +20-+37 dbm read on 3.5" dia meter. Multiplier circuit x0.1, x1, x10, x100 allows input impedances 2.5 to 20000 ohms in 40 steps; 30-10000 Hz response. 8.5x11x5.5, 17 lbs sh. USED, $69.50; MANUAL, partial-reproduction, $8.50

VISIT OUR WEBSITE AT FAIRRADIO.COM

50 MHz Signal Generator

AN/URM-25 SIGNAL GENERATOR with accessories; covers 10 KHz to 50 MHz in 9 bands. Output to 100K uv into 50 ohms. Modulation 0-50% 400 or 1000 Hz; internal 1 MHz calibrator. Includes MX-1487 impedance adapter, SM-35 antenna simulator, attenuators CN-223-224, test cable & manual repro. Requires 115 VAC 60 Hz; 11.3x14x10.8, 52 lbs sh. USED-REPARABLE, $90. CHECKED, $159.50

HP-8640B Signal Generator



HEWLETT-PACKARD 8640B RF GENERATOR w/ options 001/002/003 for 20 Hz-1024 MHz AM-FM-Pulse in 11 bands read on 7-digit display. Output +19 to -145 dbm (2 V to 0.013 uv); phase-lock FM. Opt 003 is reverse power protection. Requires 100/120/220/240 VAC 48-440 Hz; 5.5x16.8 x18.8, 53 lbs shipping. USED-CHECKED w/manual copy, $1795.00

HP-8640B opt 001/003, 20 Hz-512 MHz, $1395.00

+ +

MILITARY VERSION of popular solid-state HEWLETT-PACKARD 8640B with opt 323 (AN/USM-323). Covers 500 KHz to 512 MHz AM-FM-Pulse in ten octave ranges using 6-digit LED readout; to 1024 MHz using external freq doubler (not available). Output: 0.01 uv to 2 V (-144 to +19 DBM); modulation 400, 1000, 5000 Hz. Pulse: 0.05-5 KHz. Resolution 10 Hz (0.5-4 MHz), 100 Hz (4-64 Mhz), 1 KHz (64-512 MHz). USM-323 does NOT have these features: seventh 1/2 digit, X100 Expand, ext-count input, phase-lock. Mounted in transit case. Requires 103-127/207-242 VAC 48-440 Hz; 7.8x19.5 x22.4, 70 lbs. USED-CHECKED w/book copy, $995.

512 MHz Signal Generator

WAVETEK 3007 SIGNAL GENERATOR/ DEVIATION METER, synthesized 1 to 512 MHz AM-FM-CW read on 6-digit lever indicator switches; 1 KHz resolution. Output +13 to -137 dBm (1 V to 0.03 uV). 400 or 1 KHz AM Modulation 0-90%. FM deviation variable 0-500 KHz in two ranges at rates upto 100 KHz. Input 50 ohms; N connections. Requires 115/230 VAC 50-400 Hz. 6x12x15, 28 lbs. USED-CHECKED with manual copy, $695.00

NOISE GENERATOR

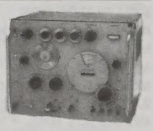
GENERAL RADIO 1390B RANDOM NOISE GENERATOR, produces wide-band noise of uniform spectrum for telephone transmission, vibration and accoustical tests. Freq: 5 Hz to 5 MHz in ranges 20 KHz, 500 KHz & 5 MHz; multipliers X1, X0.1, X0.01, X0.001. Output variable 30 uv to 3 V @ 20 KHz. Re-quires 105-125/210-250 VAC 50-60 Hz; 7.5x12.8x9.8, 16 lbs sh. Dark grey face: USED-CHECKED, $100.

#GR-1390B-LG, light-gray face, CHECKED, $125.00

X - Y SCOPE

HEWLETT-PACKARD 130C SCOPE, 500 Khz bandwidth and 0.2 mv/cm sensitivity for X-Y amplifiers useful in phase measurements. Large easy-to-view 5" CRT. Sensitivity: 0.2 mv to 20 V/cm in 16 calibrated steps, 1-2-5 sequence; vernier to 50 V/cm. Sweep 1 usec to 5 S/cm in 21 steps; vernier to 12.5 S/cm. Also 350 Hz squarewave calibrator, X2/X50 magnifier, auto trigger, beam finder. 115/230 VAC 50-1000 Hz; 7.3x16.8x18.5, 38 lbs sh. With manual: USED-REPARABLE, $75. CHECKED, $155.

UHF Signal Generators



HEWLETT-PACKARD 620B SIGNAL GENERATOR, 7 to 11 Ghz in single band FM, pulse or squarewave modulation. Calibrated output 0.1 uv to 0.224 V into 50 ohms. Also second 0.3 MW uncalibrated output usable for phase locking. Pulse rate 40 to 4000 pps; width 0.5 to 10 usec. Uses 5721 or = klystron. Requires 115/ 230 VAC 50-400 Hz. 13.9x17.5 x17.4; 70 lbs. USED-REPARABLE w/output, $300.00

HP-618C GENERATOR, similar to 620B except 3.8 to 7.6 Ghz; REPARABLE w/output, $350.00

MANUALS for 618B or 620B, partl-repro $15.00

+ +

TS-403 RF GENERATOR, 1.8-4.2 Ghz; 0.1-200K uv out. Similar to HP-616B; 70 lb used reparable $250

SG-557/TS-621 RF GENERATOR 3.8-7.5 Ghz FM-CW; 110 lbs sh. USED-REPARABLE, $265

Manuals for TS-403 or TS-621, partial-repro, $15 ea

480 MHz Signal Generator

HEWLETT-PACKARD 608E SIGNAL GENERATOR, best of 608-series covers 10-480 Mhz AM-CW-pulse; 1 & 5 Mhz calibration check points over range make +/-0.05% accuracy possible. Modulation 400 or 1000 Hz internal; external 20 Hz-20 Khz, 0 to 90%. Large 3.5" dia meters for Percent Modulation & Output Volts-DBM. Requires 115/230 V 50-400 Hz; 16.4x13.3x21, 72 lbs. USED-REPARABLE, $225. CHECKED, $275. MANUAL for 608E, partial repro, $15.00

FIBERGLASS TRANSIT CASE for HP-608 generators; 30 lbs sh. #FIB-USM-44B, used, ~~$40~~ $30.00

URM-26B GENERATOR

SG-117/URM-26B SIGNAL GENERATOR, 4 to 405 MHz AM-CW - Pulse in six bands. Output 0.1 to 100K uv into 50 ohms. Modulation 400 or 1K Hz 0-50%. External pulse-mod requires positive 40 V-min 50-500 pps; duration 2-40 usec and 70 ohm input impedance. Requires 115 V 50-1000 Hz. Outer case may have small dents. 11.3x14x10.5, 36 lbs sh. USED-CHECKED, $160. Manual, partial repro $10

ACCESSORIES sold only with purchase of URM-26B:

CN-315 2:1 atenuator, 50 ohms, $8.00
CN-316 10:1 50 ohm, $10.00
CN-471 10:1 70 ohm $10.00
CU-439 impedance matcher, $10.00
BNC cords, 4 foot, $4.00 6 inch, $2.00

5 MHz SCOPE

OS-106/USM-117 TRANSISTORIZED OSCILLOSCOPE, DC to 5 Mhz bandwidth, 4QP2 rectangular CRT, and very compact. Includes MX-2996 high gain vertical plug-in; dual-trace capability when used with MX-2995 plug-in (not available). Sweep range 0.1 u-sec to 0.1 sec in 19 calibrated steps, 1-2-5-10 sequence. Vertical sensitivity: 0.01 to 20 v/ div in 1-2-5-10 sequence; variable to 50 V/ div. Input impedance 1 megohm shunted by 47 pf. Calibrator generates 1 Khz square-wave at either 0.04 or 0.4 V p-p. Requires 115 VAC 50-60 or 400 Hz. 8.5x9.8x15, 20 lbs. USED-REPARABLE, $100 CHECKED, $175 MANUAL for USM-117, partial repro, $15.00

OS-8 SCOPE

OS-8* OSCILLOSCOPE with 3RP1 CRT; small portable vacuum tube-type unit has response DC to 2 Mhz. Sensitivity 0.075 Vrms per 1" deflection. Sweep: 3 to 50 Khz. Input imped: 9 megohms shunted by 11 pf DC. Direct access to vertical and horizontal plates. Requires 115 VAC 50-1000 Hz. 9x6x13.5, 18 lbs. USED-REPARABLE, $45.00

Manual for OS-8 (specify "letter"), partial repro, $10

PLUG - INS

HEWLETT-PACKARD PLUG-IN for 180-Series or USM-281A O-scopes Response DC-50 MHz. Deflection 5 mV to 20 V/div in 12 steps. Trigger A, B, A+B, chopped & alternate; 6 lbs sh. GOV'T-RECOND w/manual, $85.

+ +

VERTICAL PLUG-INS for TEKTRONIX 535/545-Series and other scopes, USED-REPARABLE:

TEK CA Dual-Trace DC-24 MHz, ~~$75.00~~ $40.
TEK M Four Channel DC-20 MHz, $100.
TEK O Operational Amp, $85. MANUAL repro, $15.
TEK Q Transducer-Strain Guage, ~~$145.~~ $85.
TEK Z Differential Comparator, $85.
TEK 1A1 2-Trace 30/50 MHz Tek 545/547, $49.
TEK 82 Dual-Trace for Tek 581/585/A, $50.

+ +

7A13 DIFFERENTIAL COMPARATOR plug-in for 7000-Series scopes; DC to 100 MHz. Usable as differential input preamp, conventional preamp or as comparator. +/- 10 V offsetting voltages; 4-digit readout. 5 lbs sh. USED-REPARABLE, $125.

TEK 7A16A SINGLE-TRACE for Tek 7900-Series scopes; DC to 225 MHz. USED-reparable, $100.

TEK 7L13 SPECTRUM ANALYZER PLUG-IN, covers 1 KHz to 1.8 GHz; CRT readout of center frequency, 30 Hz-3 MHz resolution bandwidth, and automatic phase- lock. 5x8x14, 20 lbs. USED-reparable $1500.

+ +

CRT's for 400-& 500-Series scopes: Write your needs!

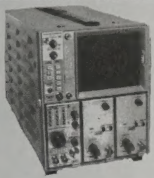
- -

TEKTRONIX 1106 BATTERY PACK for 455, 465 & 475 scopes w/option 017.

Nickel-cadmium batteries provide 22 to 24 VDC 7 AH 5 amps max. Charges from 90-120/200-240 VAC in-put. 2.6x11.5x17, 20#. used w/book $50.00 No warranty on batteries.

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

TEK 7603N11S

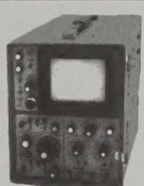


AN/USM-281C (Tektronix 7603-N11S) OSCILLOSCOPE, modern, versatile 7000-Series scope with large 8 x 10 cm display and at least 65 Mhz response. Includes two AM-6565 (7A15AN11) single-trace and one TD-1085 (7B53AN11) dual time base plug-ins plus the 100 Mhz mainframe accepts standard Tek 7000-Series plug-ins. Vertical deflection 5 mV - 10 V/div in 11 calibrated steps, 1-2-5 sequence; vernier to 25 V/div. Sweeps: Normal, Intensified Delay, Delayed and Mixed. Rate 0.05 uS - 5 S/div in 25 steps, 1-2-5 sequence; 5 NS rate using x10 magnifier. Delayed rate 0.05 uS to 0.5 S/div in 22 steps. Requires 100-120/200-240 VAC 48-440 Hz. With book; 11.5x9.7x25.2, 52 lbs sh.
USED-REPARABLE, $320. CHECKED, $400.00
MANUAL for USM281C only, partial repro, $30.00

+ +

+ ADAPTERS for USM-281C/TEK7603:
#103-0015 ADAPTER BNC (f) - UHF (m) $2.50
#103-0032 ADAPTER BNC (m) -UHF (f) $2.50
#103-0033 ADAPTER BNC (m) to post, $2.50
#103-0030 T-CONNECTOR, BNC (f-m-f) $3.00
#012-0118 CABLE, 8 ft BNC, 50 ohms, $4.00

USM-281E 50 MHz Scope



OS-246A/USM-281E SCOPE with AM-6566 dual-trace & TD-1086 time base-delay plug-ins. DC to 50 MHz response, solid-state circuitry and 8x10 cm display. Deflection ranges: 5 mv to 10 V/div in 11 steps, 1-2-5 sequence + vernier to 25 V. Select CH 1 and/or 2 channels, alternating and chopped; X5 magnifier. Maximum input: 400 V peak AC or DC coupled. Sweep Auto, Trigger or Single. Ranges 0.1 us-2 s/div in 23 steps, 1-2-5 sequence, vernier to 5 sec. Delay range: 0.1 us to 50 ms/div in 18 steps, vernier to 125 ms. Delay variable 0.1 us-20 sec. Sweep magnifier X10. Calibra tor 300 mv & 1 V p-p @ 1 KHz. Requires 115/230 VAC 50-440 Hz; Dumont mfg. 11.4x7.9x21.3, 44 lbs sh.
USED-CHECKED, $295. Manual, partial repro, $35.

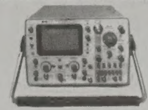
+ +

OS-189/USM-281A SCOPE, militarized Hewlett-Packard 180 with PL-1186A dual-trace and PL1187A time base sweep delay plug-ins; same specs as USM-281E. used reparable w/trace $150.
MANUAL for USM-281A, partial repro, $25.00

Leader 20 MHz Scope

LEADER LBO-522 20 MHZ DUAL-TRACE SCOPE with 8x10 cm display and 10 ns risetime. Deflection ranges 5 mv to 5 S/cm in 10 calibrated steps, 1-2-5 sequence. Modes CH-1 or -2, alternate, chop, add, subtract. Time base 0.2 us to 0.2 s/div in 19 steps. Trigger sources: Internal CH-1 or -2, alternate, Line, Ext. Coupling: AC, HF REJ, TV-V, TV-H. X5 magnifier. Requires 100/120, 220/240 VAC 50-60 Hz;
6.3x11.4 x14.8, 24 lbs shipping.
USED-REPARABLE with trace, $150.00

275 MHz SCOPE



HEWLETT-PACKARD 1720A PORTABLE SCOPE, DC to 275 MHz response with dual channels, large 6x10 CM display, and selectable input impedance 50 ohms or 1 megohm. Modes Channel A or B, A+B, A & B alternating, A & B chop. Deflection: 5 mv-5 V/div in 10 calibrated steps, 1-2-5 sequence plus vernier to 12.5 V. Sweep: 10 ns-0.2 s/ div in 23 steps, vernier to 0.5 sec and X10 magnifier. Trigger normal, auto or single. Delay sweep: 10 ns-0.1 s/div in 22 steps, vernier to 0.25 sec; delay time varies 0.02 us-2 sec. Calibrator 1 KHz squarewave, 1 V p-p. Requires 115/230 VAC 50-440 Hz, 38 lbs sh.
USED-REPARABLE, $425. CHECKED, $550.00
MANUAL for HP-1720A, partial repro, $25.00

TEK 100 MHz SCOPE

TEKTRONIX 465M (AN/ USM-425) OSCILLOSCOPE, militarized portable dual-trace unit has response DC to 100 MHz and 8x10 CM display. Deflection 5 mv to 5 V/div in 10 calibrated steps, 1-2-5 sequence plus vernier. Vertical modes: TRIG View, 20 MHz BW, CH 1, ALT, Add, Chop, CH 2 or X-Y. Sweep 0.05 usec to 0.5 sec/div in 22 steps plus vernier; delay 0.05 usec to 50 msec/ div. Inputs: 1 Megohm paralleled by 20 pf. Also X10 magnifier, adjustable handle, front cover and manual copy. Requires 100-132/ 200-264 V 48-440 Hz; 7x1.7x21.5, 32 lbs sh.
Used-REPARABLE w/trace, $350. CHECKED, $475.

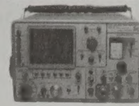
PHILLIPS SCOPE

PHILLIPS 3267U DUAL CHANNEL DC-100 MHz SCOPE with 8 x 10 cm display, 3.5 ns risetime and Trigger View, the display of 60 MHz internal and 70 MHz external main time-base trigger signal. Vertical modes: Channels A or B only, A & B chopped or alternating, Trigger View only, A, B & Trigger View chopped or alternating, A & B added. Amplitude ranges 2 mv to 10 V/div in 12 calibrated steps, 1-2-5 sequence. Sweep ranges 0.05 us to 0.5 S/div in 22 calibrated steps. Delay to 1 ms, 14 steps. Calibrator 1.2 V rectangular. Requires 90-132/195-270 V 46-440 Hz or 24 VDC for battery. 5.4x13.2x17.5, 29 lbs sh. USED-reparable with trace and operator's manual, $250.00

USM-338 SCOPE

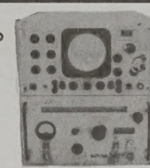
AN/USM-338 OSCILLOSCOPE militarized Hewlett-Packard 1707B solid-state 75 MHz dual-trace scope is mil-spec rated to 50 MHz response; 6x10 CM display. Deflection: 5 mv - 20 V/div in 11 ranges 1-2-5 sequence + vernier to 50 V. Modes CH A, B, A-B ALT, Chop, and A+B. Sweep: 0.1 usec to 2 S/div in 22 steps, vernier to 5 sec. Delay: 0.1 usec to 0.2 s/div, vernier to 0.5 sec. Input: 1 megohm shunted by 30 pf. Calibrator 1 KHz squarewave, 1 V p-p. Also X10 Magnifier and Beam Finder. With front cover and manual copy; probes not included. Requires 115/230 VAC 48-440 Hz or 11.5 to 38 VDC input; 10.3x13x20, 42 lbs sh.
USED-REPARABLE, $250.00; CHECKED, $350.00

SPECTRUM ANALYZER



TEKTRONIX 491 SPECTRUM ANALYZER, portable unit with 8x10 cm CRT display covers 10 MHz to 12.4 GHz; up to 40 GHz using external mixers (optional). Resolution 1 KHz to 100 KHz, coupled with calibrated dispersion positions but separately switchable. Sensitivity > 100 dbm to 8.2 GHz. IF attenuation: 51 db using toggles 1-2-4-8-16-20 db. Sweep: 10 us to 0.5s/ div in 15 steps. Dispersion: 1 KHz to 10 MHz/ div 1-2-5 sequence using 1 KHz & 1 MHz ranges. Requires 90-136/180-272 VAC 48-440 Hz. 7x12.5 x17.5, 36 lbs sh.
USED-REPARABLE with display of RF input, $1195.
MANUAL, partial repro, $25.00

UPM-84 Spectrum Analyzer



TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 Mhz to 44.88 Ghz in eight bands; 5" 5ADP7 CRT. Resolution at 3 db points: 20 Khz over range. Dispersion: 500 Khz-Mhz adjustable (10-55 Mhz); 500 Khz-25 Mhz (55 Mhz & up). Spectrum calibrator 160 Mhz center freq +12.5 Mhz. Sensitivity as low as -63 db (10-150 Mhz); 40 db (2.0 Ghz up). RF attenuation 100 db uncalibrated internal 10 Mhz to 12.4 Ghz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17.3x19x26, 230 lbs w/case.
USED-REPARABLE, $345.00
MAINTENANCE MANUAL, partial repro, $15.00
OPERATOR'S MANUAL, partial repro, $8.50

+ +

ACCESSORY KIT for UPM-84 including five band-pass filters for segments of 0.75-11.8 Ghz range, 3 variable attenuators & 3 coax to waveguide adapters for 12.4-44.88 Ghz; 20 lbs. $85.00 w/ set purchase

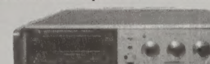
HP Analyzer Plug-In

HEWLETT-PACKARD 8553B SPECTRUM ANALYZER PLUG -IN for HP-141T mainframe; covers 1 Khz to 110 Mhz in bands 0-11 and 0-110 Mhz. IF bandwidths: 10 Hz to 300 Khz, 1-3 sequence. Scan widths on 10-division CRT: 20 Hz/div to 10 Mhz/div in 18 calibrated steps, 1-2-5 sequence. 4x8.9x13.5, 17 lbs.
used reparable $250.00 Manual, partial repro, $17

HP-8556A, similar to 8553B but covers 20 Hz to 300 Khz range. USED-REPARABLE, $175.00

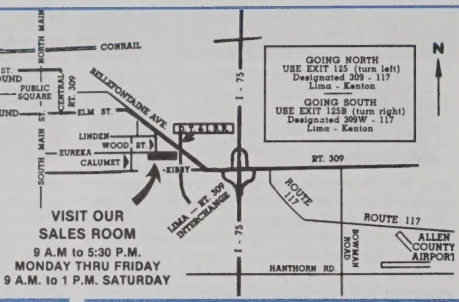
+ +

HEWLETT-PACKARD 8445B Opt 002 TRACKING PRESELECTOR for HP-141T/ 8555A spectrum analyzer over 10 Mhz to 18 Ghz. Suppresses mixing image and multiple responses during spectrum tests. Functions as YIG filter over 1.8-18 Ghz with selectable scans of 2-4-6 or 8 Ghz. Uses low pass filter below 1.8 Ghz. Opt 002 provides Coarse & Fine manual controls and MODE Auto-Manual-Remote-Low Pass select; N connections. Less interconnect cable. Requires 100/120/200/240 V 48-440 Hz. 3.5x16.8 x18.4, 25 lbs sh. USED-REPARABLE, $325.00



HP-8443A TRACKING GENERATOR-COUNTER, similar to above except for use with 141T/ 8553A 0.1-110 MHz spectrum analyzer.
USED-REPARABLE, $275.00

FOR ORDERING INFORMATION SEE PAGES 16 & 17



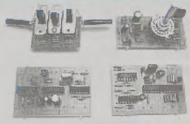
VISIT OUR
SALES ROOM
9 A.M to 5:30 P.M.
MONDAY THRU FRIDAY
9 A.M. to 1 P.M. SATURDAY

Fair Radio Sales Co., Inc.
1016 E. EUREKA ST.
P.O. BOX 1105
Lima, Ohio 45802

ADDRESS SERVICE REQUESTED

PRSRT STD
U.S. POSTAGE
PAID
Permit No. 100
Sidney, Ohio

Electronic Kits



AUDIO SPECIALTIES COMPANY ELECTRONIC TOOL BOX KITS. These kits consist of quality fiberglass circuit boards, components for circuit boards, instructions. Kits do not include case, meter, switches/pots, battery, misc hardware unless noted. 2 or more kits - take 10% off

Audio Wattmeter Kit indicates 100/1000 Watts/8 Ohms or 200/2000 Watts/4 Ohms using simple,but accurate circuitry. With meter scale. Buyer to supply case, 1 ma meter, switch. #ASC-585-B, $14.95

50 OHM ATTENUATOR PAD KIT for use up to 150 Mhz provides 42 db of attenuation in 6,12,24 db steps. With slide switches, circuit board, resistors instructions. #ASC-586-B, $12.95

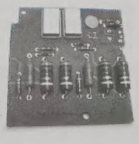
AC VOLTMETER KIT 10Hz to 350Khz -1db, 7 to 700 KHZ -3db. Input impedance 111 KOhm. Range 20, 200 mv, 2,20,200 volts AC. Builder to supply meter, case, 9v battery. Kit includes board, resistors, capacitors, range switch, diodes, IC, and instruction. #ASC-581-B, $24.95

PRECISION CAPACITANCE METER KIT. Crystal referenced differentiating HCMOS circuitry indicates 1 nf to 10mfd, 1% accuracy. Builder supplies 4 DPDT slide switches, case, external digital voltmeter for readout, connection for unknown capacitor and output for voltmeter, 9V battery. ASC-584-B, $24.95

4 DECADE SIGNAL GENERATOR KIT 200 to 200Khz Sine 1.5Vrms/Square wave 5v p-p output, extremely flat amplitude over operating range. Output resistance 3 Kohm. Digitally generated signal frequency. Output to monitor frequency on DMM. Includes circuit board, board components. Builder to supply 4 DPDT switches, 1/SPST, 100K pot, case, terminals, 9 volt battery. ASC-583-B, $24.95

PRECISION OSCILLATOR KIT 1 HZ - 1 MHZ Sine 1.5 VRms/Square wave 5 V p-p. Extremely flat amplitude over operating range. HCMOS digitally generated signal frequency, output to monitor frequency with DMM. Builder supplies 2 pole 6 position switch, 4 binding posts, 9 v battery, 100K pot, case, and DMM. ASC-582-B $32.95

SWITCHING RELAY



TELEDYNE MILITARY SOLID STATE AC 40 - 400 HZ SWITCHING RELAY optically isolated (1500 vrms). Rated 250 VAC 1 amp (2 amp heatsinked). Control voltage 3 to 32 VDC. Two relays on circuit board. 3.2 x 3.2 x .3, #682-1, $3.00

300 PSI GAUGE

DURAGAUGE 7.5" 0 TO 300 PSI PRESSURE GAUGE. 1 PSI graduations. Quality metal construction. Face is 5.5" dia. with 3/8" fitting on back of gauge. Mounts on reat flange. 5 lb sh. Ashford "r", #PG-300 unused $29.95

PRESSURE REGULATOR 0 - 500 PSI. Seems to be a quality unit, but no mfg. or country of origin on the unit. 2.5x1.8x3.3, 2 lb sh. #PR-500, $7.95

Semiconductor Tester

MODEL 5110 SEMICONDUCTOR TEST SET BY VU-DATA for IN or OUT of circuit testing of TO-3, TO-5, and TO-66 semiconductors. Three fused jacks are provided for testing other semiconductors and diodes. Uses high current low duty cycle pulses to test transistors. Circuitry to allow the user to identify the terminals of the DUT. Tests transistors for Vbe, Icbo, or Beta. Tests transistors, diodes, zener diodes, SCR's, and FET's. The parameter display indicates according to position of switch. The Go-No Go display identifies the Emitter/Base/Collector lead. With copy of manual. 6 x 12.5 x 8.4, 9 lb sh. used excellent $125.

INDUCTO TUNER

MALLORY INDUCTO TUNER. This is a five section 7.5 turn variable inductor as used in the front end of vhf receivers. Tunes 55 to 350 MHz with 100pf capacitor in parallel. Also useable to make tuneable filters. 9.8 x 2.8 x 2, 3 lb sh. #MIT-5, $14.95

R-442 RECEIVER

R-442/VRC RECEIVER 30 - 75.95MHZ FM RECEIVER. 920 50 KHZ CHANNELS. Has noise and tone operated squelch. Normally used with antenna system AB-15, MS 116, 117, 118. Power connections through MT-1898 mount and DC power cable, CX-4720 which are included. 13.5, x 5.8 x 8.9, 31 lb sh. Used Reparable $300.00.

FM TUNER

ALPS FM TUNER with 3 gang variable capacitor and IC oscillator - no AM component. 75 ant, 300 IF jacks. 1/4" dia shaft, 5.5 x 2.5 x 3.3, 2 lb shipping. #00234229, NEW, w/ schematic, $7.95

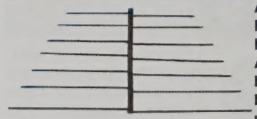
3/4 HP MOTOR

MAGNETEK VARIABLE SPEED 3/4 HP DC MOTOR. 90 VDC 10 Amps 3450 RPM. Rated for CCW rotation comm end. 11.3 x 4.9 dia. 22 lb sh. #22254200, UNUSED, $150.00

850-950 MHz CAVITY

850 to 950 MHz CAVITY from cellular installation. Frequency varies over the range by means of an adjustable plunger with locking screw. Has a smaller plunger for fine frequency adjust. Two input/output loops each with N connection. Aluminum; 18"Hx6.8" dia, 10 lbs sh. #CAV-850950, used-clean, $49.95

LOG PERIODIC



AS-2851/TR PORTABLE LOG PERIODIC ANTENNA/20 FT MAST KIT. Mast kit has 4 metal and 2 fiberglass sections to make 20 FT mast. With guy rope and swivel base. Log periodic antenna has 71 inch boom, shortest element is 34 inches, longest is 98 inches. Probably 30 to 70 Mhz - no specific data. 38 lbs sh. Used $145.00

RG-11 COAX

BELDEN MIL17/6 RG-11 coaxial cable 375 feet with type N connectors. 37 lbs sh. #RG-11-375 UNUSED $49.95